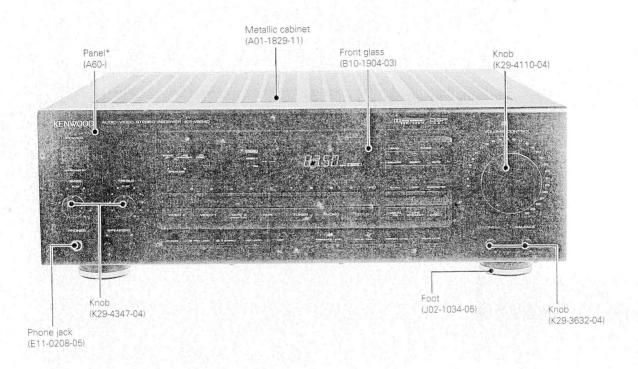
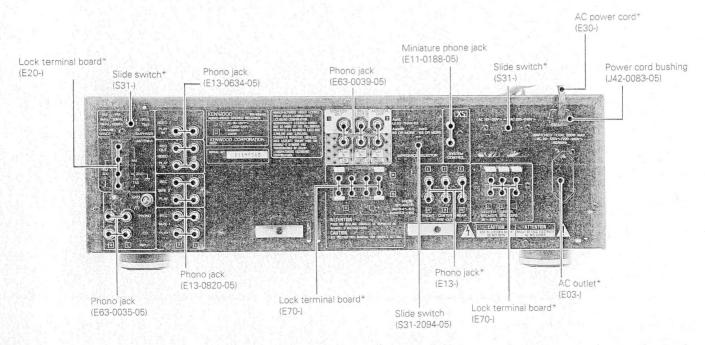
AUDIO-VIDEO STEREO RECEIVER

KR-V8040/V8540 SERVICE MANUAL

KENWOOD

© 1992-1 PRINTED IN JAPAN B51-4493-00(J)3949





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5. FM, AM, MPX system IC: LA1851N (X13:IC1)

CAUTION/CONTROLS AND INDICATORS

Caution

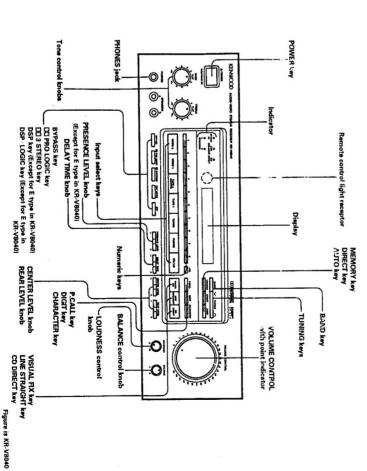
This manual is available 2 models, KR-V8040 and KR-V8540. When using this manual, please check model's

The KR-V8040 and KR-V8540 are made in different countries. However, their circuits are identical.

KR-V8040/V8540

MODEL	,		JAPAN MADE		IS	INGAPORE MADE	m
NAME	ABB.	AUDIO UNIT	BUFFER UNIT DISPLAY UNI	DISPLAY UNIT	AUDIO UNIT	BUFFER UNIT DISPLAY UN	DISPLAY UNIT
	~	X09-3550-11	X13-6970-11	X14-3400-10	X09-3580-11	X13-7050-11	X14-3400-11
	0	1-02	0-11	0-10	1-02	0-11	0-11
	۷.	2-92	2-92	0-21	2-92	2-92	0-22
VU-40040	Ζ	0-22	2-92	0-21	0-22	2-92	0-22
	п	2-71	2-7,1	2-71	2-71	2-71	2-72
		0-51	2-71	0-51	0-51	2-71	0-52
	_	X09-3550-10	X13-6970-10	X14-3400-10	X09-3580-10	X13-7050-10	X14-3400-11
VD VOE AO	70	1-01	0-10	0-10	1-01	0-10	0-11
VU-600#0	~	2-91	2-91	0-21	2-91	2-91	0-22
	Ζ	0-21	2-91	0-21	0-21	2-91	0-22

Controls and indicators



Remote control unit (A70-0574-05)

Accessories

'-M indoor antenna (T90-01 '5-05) antenna arlaticor (T.E type rinly) (T90-0185-05)







































(KR-V8540 only)













































































































































"R03" cr 'AAA')



















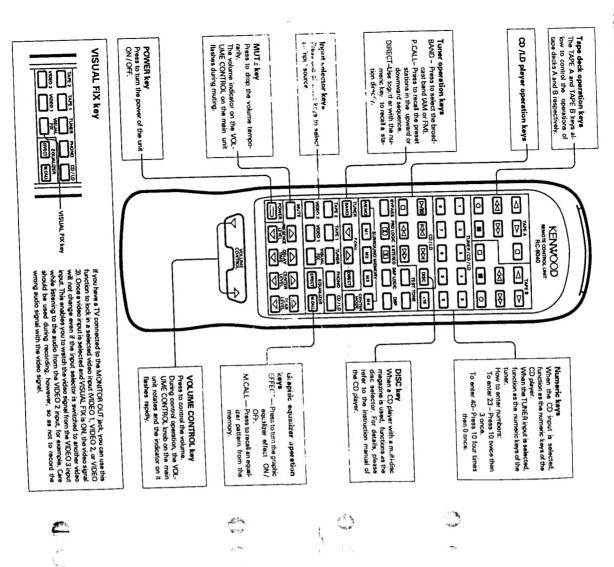






R-V8040/V8540 REMOTE CONTROL OPERATION

For KR-V8040



REMOTE CONTROL OPERATION KK-V8040/V8540

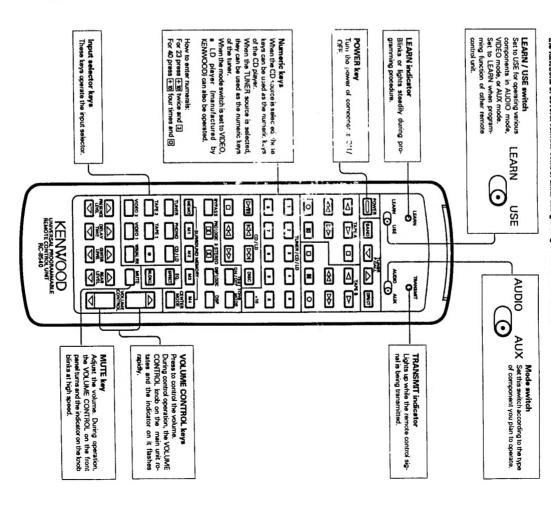
For KR-V8540

The supplied remote control unit has two operation modes: [USE], for operating various components in your system, and [LEARN], for programming ("learning") the remote control functions of other AV equipment.

There are three [USE] modes. One is AUDIO mode, for operating KERWOOD system sudio components, another is VIDEO mode, for operating AV components, and the third is AUX mode, for operating other optional equipment.

[EARN] mode is used to program the functions of other AV components into this remote control unit. This lets you perform the functions of several remote control units using a single remote control unit.

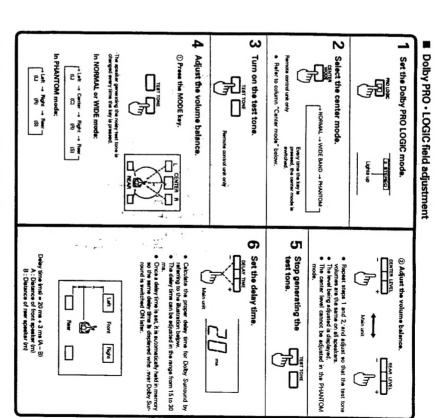
...

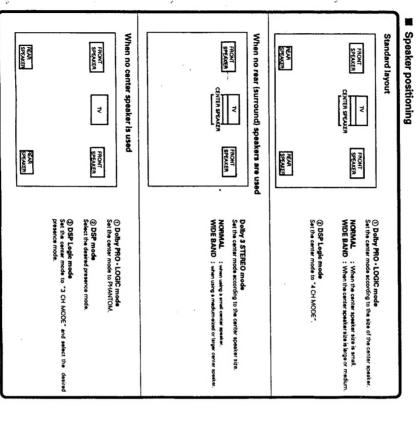


ИОІТАЯЗЧО KB-V8040/V8540

PHANTOM: I Use this mode when the center ageinst is not used. PHANTOM: I Use this mode when the center ageinst is processed in a simulated manner to ensure propercenter image positioning and provide the enterprise of Doby Surround.	NORMAL: Use this mode with a center speaker of a compact size. WIDE BAMD: Use this mode with a enter speaker of a medium or large rize. WIDE BAMD: Use this mode writ a enter speaker is a first medium or compact size, try both the NORMAL and WIDE mode and use the one that can provide better sound positioning.	Select one of the following center modes according to the type of the presence speakers in your system.	Center mode
ner to ensure propercenter image positioning and provide	present into control of the control		

)





Direction and	DD3 STEREO kay	
These Carry (1978)		
	DSP LOGIC key	

1) Presence

② Operation of Dolby PRO LOGIC

KE-18040/18240

ИОІТАЯЗЧО

SMALL THEATER Reproduces the sound field of a small movie theater or hall

... Reproduces a surround sound proper to a large movie theater

A disco where medium-frequency range is enhanced by comfortable reverberations and graphic

A stadium with reflections proper to PA speakers

JAZZ CLUB A live house of jazz where cymbals sounds well. A hall where high frequencies are reflected very well and reverberations are long.

Main unit	PLANS (PRINCE)	Goes off	To return to normal stereo playback
L	١		

CENTRE LIVE.

A Repeat steps ① and ②, and adjust to that the lives of the center speaker is equal to that of the left and right speakers.

The rear level adjustment is invalid.

Adjust the volume.

The speaker generating the test tone is changed even time the MODE key is pressed.

Stop generating the test tone.

Press the key again.

	4	ω			2	-
Main unit	4 Adjust the volume and tone.	Play a stereo software program or a Dolby surround program.	 Set the center mode to NORIWAL if using a small center speaker, or set to WIDE if using a medium-sized or larger speaker. 	Every time the key is pressed, the center mode is switched. NORMAL WIDE	Select the center mode.	Set the Dolby 3 STEREO mode.

Large theater

3ch

30 ms

- 8 dB - 8 dB

- 10 dB

-40 dB

46

30 ms

- 8 dB

- 10 dB

- 10 dB

-40 dB

- 40 dB

Discotheque Stadium Jazz club Arena

16 ms

3 Turn on the test tone.

Set the center mode to NORMAL if using a small center speaker, or set to WIDE if using a medium-sized or larger speaker.

Adjust the center speaker volume.

Press the MODE key.

Small theater

15 ms

- 16 dB

- 10 dB

~40 dB ~0 dB

5 3ch

15 ma

- 16 dB

- 10 dB

- 10 dB

■ Dolby 3 STEREO playback

Presence mode

Delay time Presence level

Center level

Rear level

Center level

Rear level

Variable setting values

initial setting values

10 ma

- 12 dB - 12 dB

- 10 dB

-40 dB

- 10 dB

15 ma

- 8 dB

- 10 dB

-40 dB - 40 dB - 0 dB

- 10 dB

- 40 dB

1 Set the Dolby 3 STEREO mode. **3**

Select the center mode.

Every time the key is pressed, the center mode is switched.

NORMAL -- WIDE

Dolby 3 STEREO adjustment

The Dolby 3 Stereo mode uses an additional center speaker to improve the positioning of words, etc., when playing video software such as a movie in your home.

4 Operation of DSP/DSP Logic

The DSP (Digital Signal Processor) allows to reproduce the stmospheres of various sound fields. By applying additional adjustments, a custom presence effect of yourself can also be created.

① DSP presence modesARENA, JAZZ CLUB, STADIUM, DISCOTHEQUE ② DSP Logic presence modesLARGE THEATER, SMALL THEATER

Satisfactory effect can be enjoyed by selecting one of the presence modes by referring to the table below. Additionally, the parameters shown in the table can also be adjusted according to your liking.

Presence level (variable in the range from - 20 to 0 db.

Delay time (variable in the range from - 40 to 0 db.

Center level (variable in the range from - 40 to 0 db.

③ Operation of Dolby 3 STEREO

NOITAR390 KB-V8040/V8540

Preset stations are received in order of 1,2,3,...20 every time the key on the main unit is pressed. Vith the key on the remote control unit, preset stations are received in order of 1,2,... every time the

key is pressed, or in order of 20,19... every time the 🖾 key is pressed olding one of these keys pressed recalls the preset stations in nce at 0.5-second intervals. When the key is released, the Main unit

ŧ

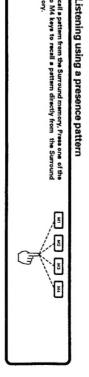
PRESET CALL

Set in 2 dB steps within a range of 20 to 0 dB.

CENTER LEVEL

The delay time can be adjusted in 1 ms steps within range of 1 ms to 50 ms.

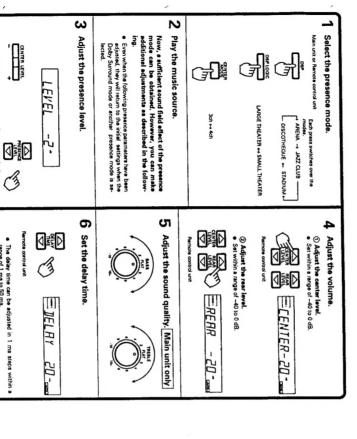
Listening to all preset stations in sequence: PRESET CALL

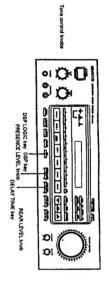


To recell a pattern from the Surround memory, Press one of the M1 to M4 keys to recell a pattern directly from the Surround memory. ■ Listening using a presence pattern 3 Press the M1 ~ M4 key. 2 Press the SURROUND MEMORY key. Select or create the presence pattern to be stored. Set to M1-M4. The unit enters storing standby mode W 42 W 1W (3) MEMORY MEMORY

0

7





SURROUND MEMORY ke

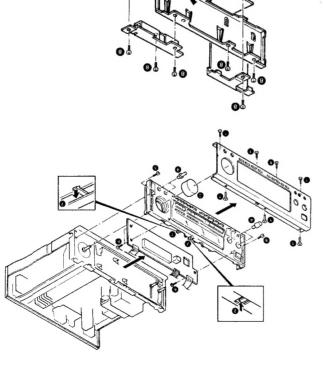
INVALE MOLION HANDS

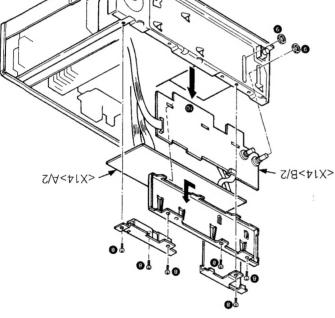
(6) Store a presence pattern

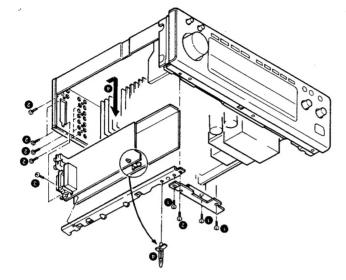
(5) Creating a DSP sound field

KB-V8040/V8540

DISASSEMBLY FOR REPAIR







1) Removing the front panel, sub panel, FL PC board (X14-A/2), and DSP PC board (X14-B/2)

- 1. Remove the seven screws (1), then remove the front panel while pressing the claw (2) of sub panel.
- 2. Remove the volume knob (3).
- 3. Remove the BASS, TREBLE, LOUDNESS, and BAL-ANCE knobs (♠).
- 4. Remove the two screws (⑤), then remove the sub panel.

 Note: when installing the sub panel to sub chassis,

insert the claw of sub panel in the sub chassis

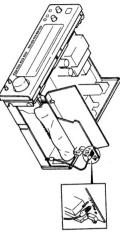
- first.
- 5. Remove the three screws (\odot), then remove the FL PC \odot .
- board (X14-A/2) (Place the PC boards on the cloth on the set).
- 7. Remove the six screws (8) and remove the bracket.
- (Pay attention to the claw.)
 8. Remove the two nuts (9) and remove the DSP board and FL board by lifting them (10).
- (Put the boards on the cloth on the set.)

2) Removing the tuner and selector PC boards (X13)

- 1. Remove the three screws (1), then remove the frame.
- 2. Remove the nine screws (3), then remove the PC boards.
- Notes: If the main VOL body shorts the +B line of class A of the selector board when removing it, a spark may be generated.
- 3. Remove the one screw (3), frame, and cramper (4).

<R-V8040/V8540 DISASSEMBLY FOR REPAIR

- 4. Install the frame to former position by two screws, and
- 5. Insert the clamper into the front hole of the X13, E/5 (Lay a cloth on top of the rear panel and connect the and fix it temporarily.
- board ground.)



3. Remove the two screws () at the PC board, and the 2. Remove the five screws () at the rear panel. 1. Remove the front panel and sub panel (Refer to 1).

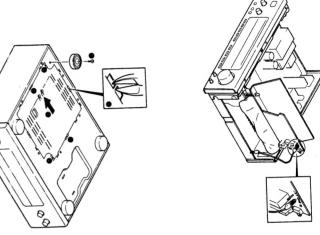
four screws () at the power transformer.

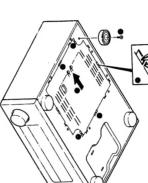
4) Removing the main chassis

DISASSEMBLY FOR REPAIR

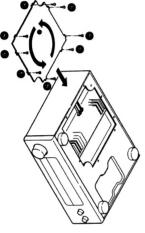
KR-V8040/V8540

- 3) Removing the repairing chassis
 1. Remove the one foot. ()
 2. Cut the six parts () of the repairing chassis, then remove the repairing chassis in the direction of arrow





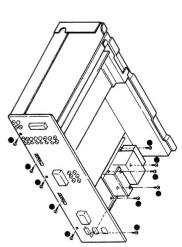
3. Turn the repairing chassis 180 degrees (), then lock to the main chassis by eight screws (M3 \times 6) (lacktriangle).



- 4. Place the spacer (a notebook, etc.) on the power transformer so that it is the same height as the top of the case, and turn the set over without slipping the trans-

- Note: Confirm that any transformer parts or jumpers and stand the set with the transformer downward. do not touch other parts, then check conduc-
- 8. To install the bottom chassis
- removal, and insert the bottom chassis from the rear direction of the arrow (@) in the same way as for Push the center of the bottom of the rear panel in the

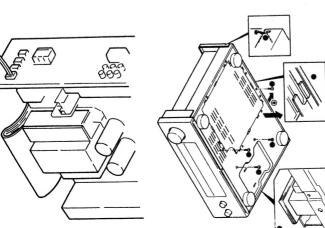
Confirm that the panel side claws have been fitted Assemble the set being careful to the projection (





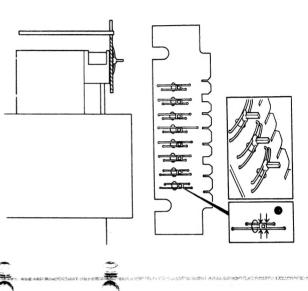


- 6. Remove the main chassis while pressing the rear panel in the direction of arrow (@).
- 7. Place a spacer on the left side of the power transformer
- properly.(

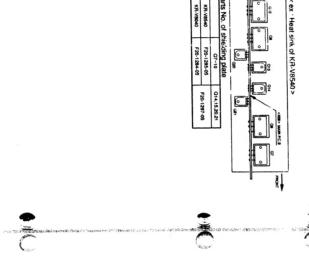


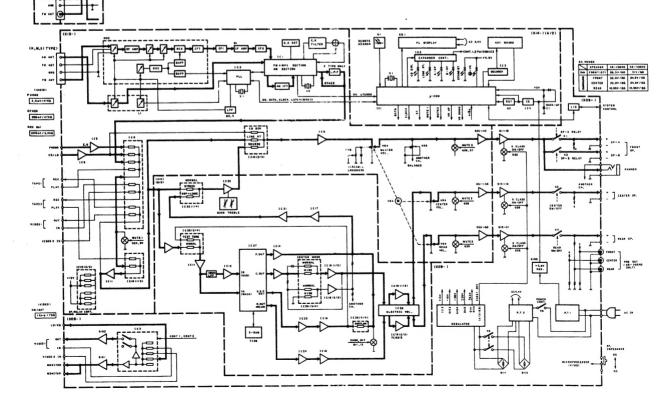
5) Notes for soldering the secondary side of the power transformer

- 1. Press the jumper in the direction of the arrow
 with formly and take care not to spill solder over the board. the square pin. Place solder around the square pin uniradio pliers so that the large area of the jumper contacts
- Solder the board at the secondary side of the trans-former in parallel to the mold to prevent any gap between the board and mold.
- The clearance between the fuse board and transformer body must be as large as possible.

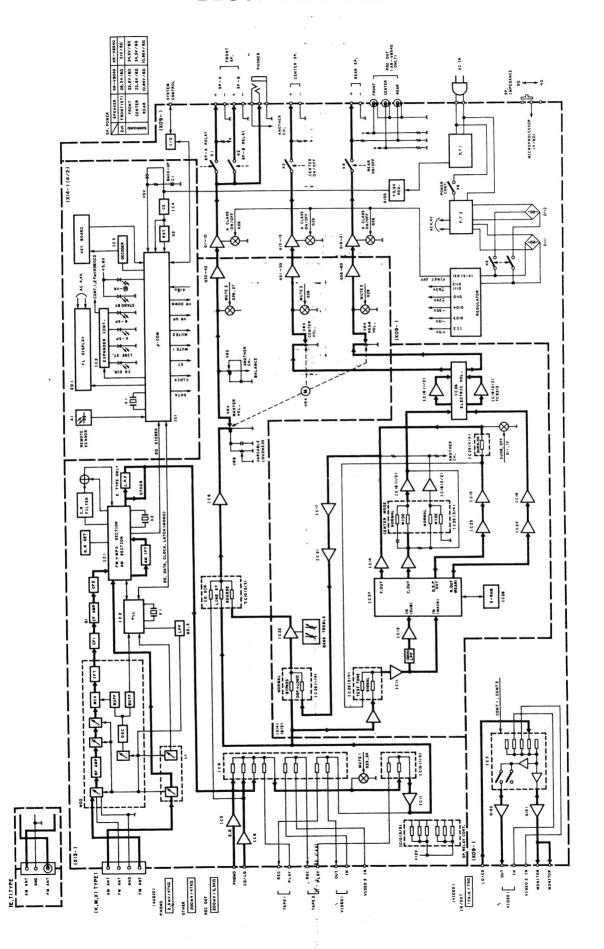


part number (F20 XYXX-95). If you use an unspecified sheet, apply heatsink compound (white grease) to both sides of the sheet. 6) Use the final TR mylar sheet with the specified





BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. Receiver microprocessor: CXP50124-139Q (X14:IC1)

1.1 Function description

- Audio selector (7 channels)
- Visual selector (3 channels) CD/LD (PLAY), VIDEO1 (PLAY/REC), VIDEO2 (PLAY) VIDEO2 CD/LD, PHONO, TUNER, TAPE1, TAPE2, VIDEO1
- CD DIRECT LINE STRAIGHT
- DOLBY PRO LOGIC, 3-STEREO, *DSP LOGIC SURROUND MODE
- CENTER MODE NORMAL, WIDE, PHANTOM (DOLBY PRO LOGIC) NORMAL, WIDE (3-STEREO) 3 CH, 4 CH (*DSP LOGIC)
- ARENA, JAZZ CLUB, STADIUM, DISCOTIQUE *DSP MODE
- *DSP LOGIC MODE
- LARGE THEATER, SMALL THEATER

User memory

- Contents: Surround mode, Center mode, Delay time Store the twenty preset stations and station Store the four presence patterns Center level, Rear level, Presence level
- Except for E Type in KR-V8040

Control object

- FL display
- LED A, SPEAKER B VOLUME, CD DIRECT, LINE STRAIGHT, SPEAKER
- ೧

LC7218 TC4028BP

NJU7311L, NJU7312L : Selector IC

YSS215-F NJU3711D

: Electric volume (Rear and center : For surround control

except the POWER key are disabled and "PROTECT" If protection occurs when the power is on, all the keys



- 4 POWER SP A, SP B, PRO LOGIC, 3-STEREO, DSP. read when you press one of the following keys: The setting of the 4/8 Ω speaker switch on the rear is
- 8Ω (Speaker impedance) A+B: Impossible; A or B: Possible; Surround

② 4Ω (Speaker impedance) When the surround function is ON: A + B: When the surround function is OFF: A+B: Possible Impossible; A or B: Possible

- Electrically driven volume

: For key scan, 4 to 10 decoder : PLL IC

NJU7313L

For surround expansion

TC9213P



2) Frequency memorized for each PRESET channel when the memory is cleared (Test frequency)

	11 ~ 20 FM 87.50	FM 89.10	AM 530	FM 98.50	FM 87.50	AM 1610 (*1700)	AM 1440	AM 990	AM 630	FM 108.00	FM 98.00	BAND FREQUENCY	ESTINATION K, P, Y, M
70000	0 FM	0 FM	O AM	0 FM	0 FM) AM	0 AM	0 AM	O AM	0 FM	FM	BAND	T, E,
1	87.50	89.10	531	98.50	87.50	1602	1440	990	630	108.00	98.00	FREQUENCY	E, Y, M

^{*1700}kHz is set for WIDE only. FM: MHz AM:kHz

3) The initial setting is performed in a following

- 1. When backup memory data is destroyed when reset is applied to the microprocessor
- When the power cord is plugged in to the AC wall outlet while pressing the TUNER key.

CIRCUIT DESCRIPTION

KR-V8040/V8540

1) Function initial setting 1.2 Initial Setting

2) Method of entering the test mode (2)

FL tube display and LED all lights.

Set the test mode (1), then, when the following keys is

pressed, test mode (2) is entered.

(TUNING) UP/DOWN

DSP LOGIC

BAND CD DIRECT

1) Method of entering the test mode (1)

While pressing the CD/LD key, plug the power cord to

the AC wall outlet. When the test mode is entered, the

1.3 Test Mode Setting

20010000	3-STEREO	PRO LOGIC	CENTER MODE	REAR LEVEL	CENTER LEVEL	SURROUND	PRESET CHANNEL	FL DISPLAY OF	AUTO/MONO	FREQUENCY	BAND	SPEAKERS B	SPEAKERS A	LINE STRAIGHT	CD DIRECT	TAPE 2	SELECTOR (VIDEO)	SELECTOR (AUDIO)	POWER
3 CH	NORMAL	NORMAL		-10dB	-10dB	BYPASS		1 1	AUTO	87.5 MHz	FA	OFF	ON	OFF	OFF	OFF	VIDEO1	TUNER	OFF.

3) Contents of test mode (2)

PRO LOGIC 3-STEREO

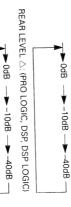
 (TUNING) UP : Electrically driven volume

(TUNING) DOWN : Electrically driven volume down

+10 : Electrically driven volume stop

BAND : Test tone ON/OFF

 CENTER LEVEL △: (PRO LOGIC, 3 STEREO, DSP CD DIRECT : Test tone mode LOGIC)



PRESENCE LEVEL △: (DSP, DSP LOGIC) → 0dB — → -10dB — → -20dB

DELAY TIME 🛆 30 ms (PRO LOGIC) 50ms (DSP. DSP LOGIC)

DELAY TIME V 16 ms (PRO LOGIC) 1 ms (DSP, DSP LOGIC)

4) Method of cancelling the test mode

let while pressing the TUNER key. When the power cord is plugged in to the AC wall out

CIRCUIT DESCRIPTION KR-V8040/V8540

1.4 Conditions by destination

1) Destination set SW	atior	set	WS			
Destination Desti-				Channel	Channel Reference PLL	몬
Destillation		BAND	frequency	snace	frequency IC (12)	ਨ <u>ਛ</u>
diode SW nation	nation		band			
		Ŧ	87.5~108.0 MHz 100 kHz	100 kHz	50 KHz	_
0	Ş		530~1610 kHz	10 kH ₂	10 kHz	エ
	××	ΑM	530~1700kHz	0 77 16		
_	11	Ę	87.5~108.0 MHz 50 kHz	50 kHz	50 kHz	_
(D27 or Q3	××	AM	531~1602 kHz 9 kHz	9 kHz	9 kHz	I
2						

Setting	0.000
diode	-

1.5 Pin connection

KS3 KS2 KS1 KS0

KR0 KR1 KR2 KR3 KR4 KR5

→ S3/PH3
→ S2/PH2
→ S1/PH1
→ S0/PH0
→ Vre
← EXTAL
→ NC Voo
→ XTAL
→ Vs
→ PC3
→ PC3
→ PC0
→ P03
→ P02

	ļ	2
for K and P types.	With destination set diode SW at "0": Effective only	2) Specification set SW: AM1700k/AM1610k

1 (D28)	0	Specification set diode SW	
530 - 1700 kHz	530 - 1610 kHz	AM reception frequency band	

1: Setting diode

Surround set SW

		Diode SVV	?	
1 (D31)		VVV		
E type	Except E type	KR-V8040	Model name (Destination)	
١	All destination	KR-V8540	(Destination)	
PRO LOGIC, 3- STEREO	Except E type All destination STEREO, DSP, DSP LOGIC		Surround operation	

1: Setti	1 (D31)		c	>			DIOGE SVV	
1: Setting diode	E type		באמשטו ד ואסמ	Evcent E type		VI 1-400-10	JIOGE SVY KB-V8040 KR-V85	IALOCCI LIGITIES
		١		All destination			ô	1
	STEREO	PRO LOGIC, 3-	LOGIC	Except E type All destination STEREO, DSP, DSP	PRO LOGIC, 3-			-Surround operation
	_							



Sapeci (1)

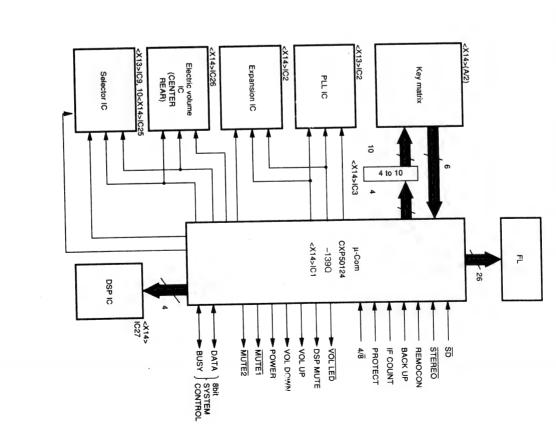
Sapeci

\$14/PJ1 4-(1)

DSP IC

CXP50124-139Q

1.6 Block diagram around the microprocessor



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(R-V8040/V8540 CIRCUIT DESCRIPTION

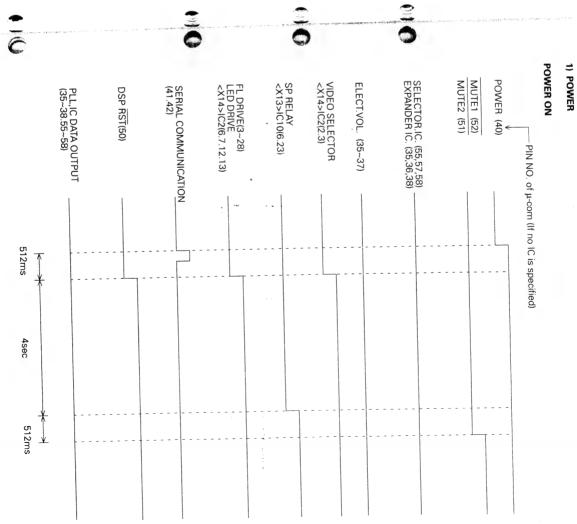
1.7 Pin description

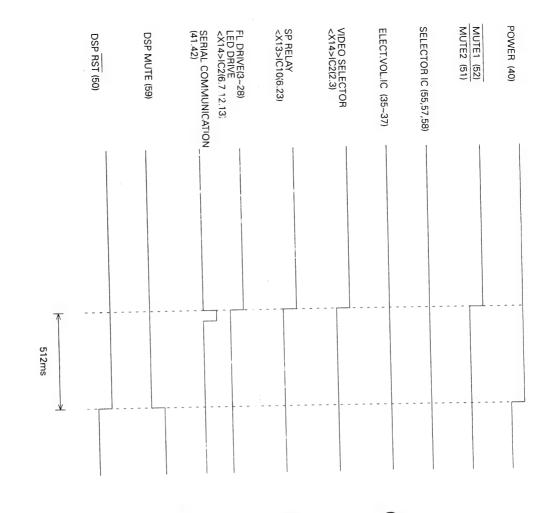
Pin No. V/O Name OPEN) 1. 2		
I/O No use O No use O SEGMENT 1-16 F O SEGMENT 1-16 F O O O O O O O O O	-	76
I/O Name N		75
	-	14
	-	2 2
		3 1
	1	75
I/O Name N	1	71
I/O Name N	_	65~70
	_	2
I/O Name N	-	ස
	_	62
I/O Name N	-	61
I/O No use C O SEGMENT 1-16 F O GRID 9-0 F O CLOCK 1 C O DATA 1 C O DATA 1 C O STROBE 1 C O STROBE 1 C O RESET (SELECTOR) F O S. BUSY C O S. DATA C O WCK C O MUTE 2 C O MUTE 2 O STROBE 3 O VOL UP O STROBE 4 O DATA2 O DATA3 O DATA4 O DATA4 O DATA5 O	0	60
I/O Name N	C	59
I/O Name (I)O No use (I)O SEGMENT 1 - 16 F O GRID 9-0 F O CLOCK 1 O CLOCK 1 O O DATA 1 O O CLOCK 1 O O DATA 1 O O CLOCK 1 O O O STROBE 2 O STROBE 1 O O O S. BUSY O S. BUSY O O CCD O WCK O WCK O WCK O WCK O WCK O MUTE 1 O WOL DOWN O STROBE 4 O STROBE 4 O DATA 2 O DATA 2 O DATA 2 O DATA 2 O DATA 2 O STROBE 4 O DATA 2 O DATA 3 DAT	c	58
		57
I/O Name (I)O No use (I)O SEGMENT 1~16 F O GRID 9-0 O GRID 9-0 O I INT. TX, TEX F O CLOCK 1 O CLOCK 1 O O O O O DATA 1 O STROBE 2 O STROBE 2 O STROBE 1 O STROBE 1 O O O O O O STROBE 1 O S. BUSY I/O S. DATA O WCK O WCK O BCK O MUTE1 O MUTE2 O MUTE2 O MUTE2 O STROBE3 O STROBE4 O STROBE4 O STROBE4 O STROBE4 O STROBE4 O STROBE3 O STROBE4 O O STROBE3 O STROBE4 O O STROBE3 O O STROBE3 O O STROBE3 O O O O O O O O O		8
I/O Name (I)O No use (I)O SEGMENT 1~16 F O GRID 9-0 O O O O O INT. TX, TEX F O INT. TX, TEX F O CLOCK 1 O O O O O O DATA 1 O O O O O O DATA 1 O O O O O O STROBE 2 O STROBE 2 O O O O STROBE 1 O S. BUSY O O O O BCK O BCK O BCK O O O O MUTE 2 O O O O O NOL DOWN O O O O STROBE 3 O O O O O O STROBE 3 O O O STROBE 3 O O O STROBE 3 O O O STROBE 3 O O O STROBE 3 O O		8
I/O No use (0) SEGMENT 1~16 F O GRID 9-0 No use O INT. TX, TEX TEX TEX I RESET TEX TEX O CLOCK 1 O CLOCK 1 O O DATA O STROBE 2 O O STROBE 1 O STROBE 1 O O STROBE 1 O STROBE 2 O O STROBE 1 O STROBE 1 O O STROBE 1 O STROBE 1 O O STROBE 1 O STROBE 2 O O STROBE 2 O STROBE 3 O O STROBE 3 O WCK O O RESET (SELECTOR) O O O STROBE 1 O O O O STROBE 2 O O O STROBE 3 O O O O STROBE 4 O O O STROBE 5 O O O STROBE 6 O O O STROBE 7 O O O STROBE 8 O O O STROBE 9 O O STROBE 1 O O O STROBE 1 O O STROBE 2 O O STROBE 2 O O STROBE 3 O O STROBE 4 O O STROBE 5 O O STROBE 6 O O STROBE 7 O O STROBE 1 O O STROBE 1 O O STROBE 1 O O STROBE 2 O O STROBE 3 O O STROBE 2 O O STROBE 2 O O STROBE 2 O O STROBE 3 O O STROBE 3 O O STROBE 2 O O STROBE 3		1 4
I/O No use (0 No use 0 No use	0	2 6
I/O No use (0 No use 0 No use		22
I/O No use (52
I/O Name (I/O No use I/O SEGMENT 1~16 F O GRID 9-0 F O GRID 9-0 F O INT, TX, TEX F O CLOCK 1 O O DATA 1 O O STROBE 2 O O STROBE 1 O O RESET (SELECTOR) F I/O S. BUSY I/O S. BUSY I/O S. DATA O O RESET (SELECTOR) O O RESET (SELE		27
I/O Name (I)O No use (I)O SEGMENT 116 F O GRID 9-0 No use I I RESET I RESET I O CLOCK 1 I O O O O O O O O O		50
I/O Name (I)O No use (I)O SEGMENT 116 F O GRID 9-0 No use I I RESET F O CLOCK 1 I O DATA 1 I O STROBE 2 I O STROBE 1 I O STROBE 2 I O STROBE 2 I O STROBE 1 I O STROBE 1 I O STROBE 2 I O STROBE 2 I O STROBE 2 I O STROBE 3 I O STROBE 1 I O STROBE 1 I O STROBE 2 I O STROBE 3 I O STROBE 2 I O STROBE 3 I O STR		49
I/O Name (I)O No use O SEGMENT 1~16 F O GRID 9-0 No use O INT, TX, TEX F I RESET I RESET I O DATA 1 O DATA 1 O STROBE 2 O STROBE 1 O STROBE 2 O STROBE 2 O STROBE 1 O STROBE 2 O STROBE 1 O STROBE 2 O STROBE 2		48
I/O Name (I)O No use (I)O SEGMENT 1~16 F O GRID 9-0 No use I I RESET F O DATA 1 I O DATA 1 I O STROBE 2 O O STROBE 1 O O STROBE 2 O O STROBE 1 O O STROBE 1 O O STROBE 2 O O STROBE 1 O O STROBE 2 O O STROBE 3 O O STROBE 1 O O STROBE 1 O O STROBE 2 O O STROBE 2 O O STROBE 1 O O STROBE 2 O O STROBE 2 O O STROBE 3 O O STROBE 1 O O STROBE 2 O O STROBE 3 O O STROBE 2 O O STROBE 3 O O STROBE 2 O O STROBE 2 O O STROBE 3 O O STROBE 3 O O STROBE 4 O O STROBE 5 O O STROBE 1 O O STROBE 2 O O STROBE 2 O O STROBE 3 O O STROBE 4 O O STROBE 5 O O STROBE		47
I/O No use (_	46
I/O No use (0 No use O SEGMENT 1 ~ 16 F O GRID 9-0 F O O O O O O O O O	-	45
I/O No use (_	44
I/O Name Name Nause Nause O SEGMENT 1~16 No use		43
I/O No use O SEGMENT 1~16 O SEGMENT 1~16 O GRID 90 O I/O		42
I/O		41
I/O No use	- D	40
VO Name		39
VO Name		38
VO Name O		37
VO Name O No use O SEGMENT 1~16 O GRID 9-0 O INT, TX, TEX O No use O CLOCK 1 O CLOCK 1 O CLOCK 1 O O CLOCK 1 O O O CLOCK 1 O O O CLOCK 1 O O O O O O O O O		36
VO Name O No use O SEGMENT 1~16 O GRID 9-0 O INT, TX, TEX O RESET No use O VDD		25
I/O Name (OPEN)		34
I/O Name (OPEN)	Z	3
I/O Name OPEN		32
/O Name (OPEN)		29~31
I/O Name (OPEN)		19~28
I/O Name (OPEN)		3~18
I/O Name		1.2
	0/0	Pin No.
7		

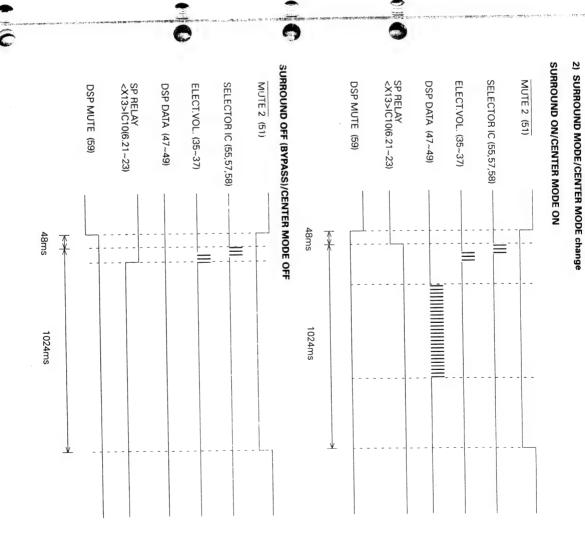
CIRCUIT DESCRIPTION

KR-V8040/V8540

1.8 Timing chart







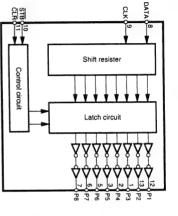
CIRCUIT DESCRIPTION

2. 8bit Serial-Parallel IC: NJU3711D (X14:IC2)

2.1 Pin connection

DATA DATA

2.2 Block diagram



2.3 Pin description

Power supply (4.5~5.5v)	VDD	14		₽8	7
7		- C	Parallel conversion data output	P7	6
Farallel Collegistor data output	3	3			,
Parallal conversion data outr	P1	12		p	ית
				400	-
CLR signal input	CLR	11	GND	Vec	2
				2	c
Strobe signal input	STB	10		D	3
		•	Largier Conversion data outbar	4	_
Clock signal input	CE -	9	Describe conversion data pritorit	2	,
				7	_
Serial data input	DATA	00		3	•
			- Chouse	INGELIG	FIR INC. INGLIG
Function	Name	Pin No.	Finction	2000	D: NO

2.4 Function description

① Reset When you set the CLR pin to low, all latches are reset, and all parallel outputs go low. Normally, you should set the CLR pin to high.

② Data transfer

When you set the STB pin to high, the serial data input to the DATA pin is loaded into the shift register in synchronization with a rising edge of the clock applied to the CLK

When you set the STB pin to low after necessary serial data is loaded, the contents of the shift register are transferred to the latch circuit.

When the STB pin is low and a clock is input from the CLK pin, the shift register data shifts, so pay attention to

hysterisis to prevent noise The four input pins have a Schmit trigger structure with the clock signal.

_	114 140.		
9	a	3	
CLK	STB	CLR	Description
			Reset all the contents of the latch circuit (the contents of the shift register remain
×	×	_	unchanged) and make all parallel outputs low.
ונ	:	-	Load serial data at the DATA pin to the shift register. The contents of the latch circuit are
Ь; Г	ı	3	unchanged.
			Transfer the contents of the shift register to the latch circuit and output the contents of
_			the latch circuit from parallel output.
	_	1	If CLK is input when STB is low and CLR is high, the contents of the shift register are
<u>ا</u>			shifted and the contents of the latch circuit are changed.

Note: X: Don't care

22



KR-V8040/V8540 CIRCUIT DESCRIPTION

3. DSP IC:YSS215-F (X14:IC27)

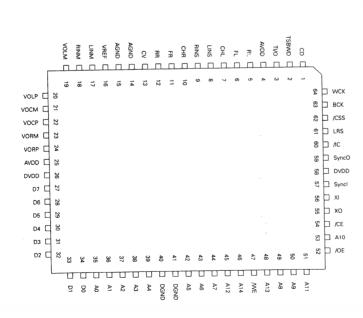
3.1 Features

- High-precision signal processing with 32-bit internal operation word length.
- Analog control of three front channels L-ch, C-ch, and R-ch.
- nal processing, noise sequencer, 7kHz low-pass filter, Contains the directional emphasis circuit by digital sigvaried Dolby B type N.R. decoder (can be turned on
- Built -in auto input balance (can be turned on and off) and off).
- Dolby reference operate level: 300 mV r.m.s. Noise sequence can be controlled by microprocessor.
- Built-in 15-bit floating A/D converter and D/A converter Built-in sound field simulation surround function by digmaximum delay of 370 ms for the S-ch and (L+R) sigital delay nals in the dolby prologic mode.

The sound field can processed with eight taps and a

- 256K pseudo SRAM interface for 16-bit linear external
- Master clock: 11.2896 MHz; Sampling frequency: 44.1 Parameter control with the microprocessor interface

3.2 Pin connection



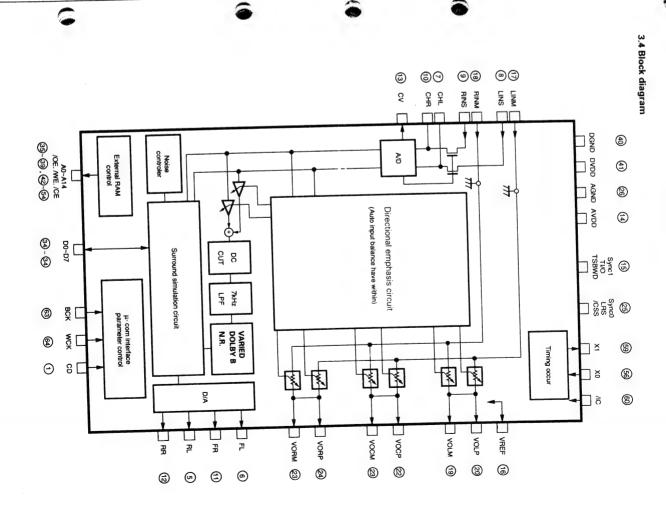
R-V8040/V8540 CIRCUIT DESCRIPTION

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KR-V8040/V8540 CIRCUIT DESCRIPTION

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Pi	
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턍	
3	

Pin No. I/O Name Pin No. I/O Name TisbwD I It Channel digital-co-analog output DSP output I It Channel digital-to-analog output DSP output I It Channel digital multiplying DAC input I It Channel digital multiplying DAC input	t: TTL level x A: Analog pin	O: Output pin S: Schmidt input	l: Input pin C: CMOS level	Note I: II
It TSBWD IT	Ward clock of parameter data input	WCK	lts	6 4
Name IT CD IT TSBWD IT TSBWD IT TSBWD IT TSBWD IT TSBWD AO ANDD AO WOCH AO WOCH AO WOCH AO WOCH AO ANDD AO	Bit clock of parameter data input	BCK	İts	 ස 1
Name	Auto input balance pin	/CSS	0	62
Name IT TSBWD	Auto input balance pin	LRS	0	61
IT TSBWD IT	Initial clear pin	/IC	lcs	60
Name State Name State	Test pin for system synchronism	SyncO	0	59
Name	+5V power supply (digital system)	DVDD	1 ;	57 (
Name	Test pin for system synchronism. Normally, connect the DVDD	Syncl	- -	57
Name To CD To TSBWD To TSBWD To TSBWD To TSBWD To TSBWD A A AVDD AA AVDD AA AVDD AA AVDD AA AVDD AA AVDD AA AGND AA AVDD AA AVDD AA AVDD AA AVDD AA AA AGND AA AVDD AA AA AGND AA AA AND AA AND AA AA AND AA AA AND AA AA AND AA AND AA AA AA AA AA AND AA	Crystal oscillator	≚ ?	- (n c
Name TCD TCBWD TCD TCD TCD TCD TCBWD TCD TCD TCD TCD TCD TCD TCD T	Crystal oscillator 1, 2006 MHz)	Š	0 (n C
Name Name TSBWD TSBW	External delay RAM chip enable pin	CE S		π υ
Name It TSBWD It TSBWD Ic TIVO AP AVDD AO AP AO AO	External delay RAM address pin	A10		5 0
Name TCD TCD TCD TCD TCD TVBWD TCD TVBWD TVBWD AC AC AC AC AC AC AC AC AC A	External delay RAM output enable pin	OF SO, NO.	- c	48~5
Name It CD It TSBWD It TSBWD Ic TI/O AO AC AVDD AO RL AO FL AO FR AO CHR AO CHR AO CHR AO AGND AI RINM AO VOEM AO AVDD AO AVDD AO AO AVDD DY-DD DGND AME AME AME AO AME	External delay RAM address pin	13 AS AG A11) (4.
Name ICD IT TSBWD IC TI/O AO AC ACADD AO AC CHR AO CHR AO CHR AO AGND AO AGND AO VOLM AO VOLM AO VOCP AO AC ACADD AO ACADD ACCADD ACCAD	External delay RAM write enable pin	AN/F) C	42~46
Name ICD IT TSBWD IC TI/O AO AC AVDD AO AL ALINS AL LINS AL CHR AO CHR AO AGND AL A	External delay RAM address pin	05 N7 N13 N14)	41
Name TCD TCD TCD TCD TCD TCD TCD TC	Ground (digital system)	DGND	ı	40
Name In TSBWD	External (digital system)	A0~A4	0	35~39
Name ICD IT TSBWD IC TI/O AO AP AO AP AO FL AO CHL AO FR AO CHR AO AGND AO VOCH AO VOCH AO VOCH AO VOCH AO AVDD ANDD ANDD ANDD	External delay RAM address pin	D7~D0	οğ	27~34
Name ICD Ic TSBWD Ic TYBWA AO AC AVDD AO AL LINS AO AL LINS AO AR AC CHR AO AR AGND AO AGND AO VOLM AO VOCM AO VORP AO VORP AO VORP	+5V power supply (Digital System)	DVDD	1	26
Name ICD Ic TSBWD Ic TYBWD AO AP AVDD AO FL AO FL AO FR AO CHR +5V power supply (Tigital system)	AVDD	7	25	
Name I/O Ic TSBWD Ic TSBWD AO AO AO AO AO AO AO AO AO A	R channel op-amp (+) ¹	VORP	AO	24
Name I/O Ic TSBWD Ic TSBWD AO AO AP AO AO AP CHI AO AO AP CHI AO AO AO AO AO AO AO AO AO A	R channel op-amp	VORM	AO	23
Name I/O RCD RCD RCD RCD RCD RCD AO AO AO AO AO AO AO AO AO A	C channel op-amp (+)	VOCP	ð	22
Name I/O It TSBWD It TSBWD AO AO AO AO AO AO AO AO AO A		VOCM	AO	21
Name I/O It TSBWD It TSBWD AP AP AP AP AP AP AP AP CHL AP CHR AP AP AP AP AP AP AP AP AP A	L channel op-amp (+)	VOLP	AO	20
Name ICD Ic TSBWD Ic TSBWD AO RL AO RL AO FL AO CHR AO	L channel op-amp (-)	VOLM	AO	19
Name I/O Ic TSBWD Ic TSBWD AO AO AO AI AO AI AO AO AO AO	R channel, multiplying DAC input	RINM	≥	1 :
Name Ic CD Ic TSBWD AO RL AO FL AO CHR A	L channel, multiplying DAC input	LINM	≥ :	17
I/O Ic TSBWD Ic TSBWD AO AC AC AC AC AC AC AC AC AC	Multiplying DAC reference voltage input	VREF	≥ :	<u>.</u>
I/O Name It TSBWD Ic TI/O AO RL AO FL AO CHU AO FR AO RR AO RR AO RR AO RR AO CY A AGND	Ground (multiplying DAC system)	AGND	P)	ή Ι
I/O Name It CD It TSBWD Ic TI/O A- AVDD AO RL AO FL AO CHR AO CHR AO RINS AO CHR AO RR	Ground (analog-to-digital, digital-to-analog systems)	AGND	P ?	. .
It CD Name It TSBWD Ic TI/O A AVDD AO RL AO FL AO CHL AI LINS AI CHR AO CHR AO CHR AO CHR	Analog-to-digital, multiplying DAC center voltage	2	è à	3 7
I/O Name It CD TSBWD Ic TSBWD AO RL AO FL AO CHL AO CHL AO CHR AO CHR AO CHR AO CHR AO CHR	RR channel digital-to-analog output DSP	B	2 5	3 =
Name I/O Ic TSBWD Ic TSBWD A A AO AC AC AC AC AC AC AC	FR channel digital-to-analog output DSP	F C	3 }	1 0
I/O Name It CD TSBWD Ic TI/O A- AVDD AO RL AVDD AO FL CHL AO CHL AI LINS	RINS input, sample/hold capacitor pin	CHR	ַ רְ	3 «
I/O Name It CD TSBWD Ic TVBWD AO AC AVDD AO FL AO CHL AO CHL	R channel analog-to-digital input	RING	≥ 1	οα
It CD Name It CD TSBWD Ic TSBWD A- AVDD AO FL AO FL	L channel analog-to-digital input		≥ }	0 \
It CD Name It TSBWD Ic TI/O A- AVDD AO FIL	LINS input, sample/hold capacitor pin	Ē	> }	1 0
It CD Name It CD TSBWD Ic TSBWD A- AVDD	FL channel digital-to-analog output DSP	<u>ה</u> ב	S &	o 01
It CD Name Ic TSBWD Ic TI/O	+5V power supply randing to agree, and	AVUU	; P	4
It CD Name	Lot test this worthank, compose the digital-to-analog systems)	1/0	ਨ	ω
. I/O Name	LSI test Pin. Normally, connect the DVDD	TSBWD	lc	2
I/O Name	Serial data of parameter data input	8	F	-1
	Function	Name	6	Pin No.



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R-V8040/V8540 CIRCUIT DESCRIPTION

4 S-RAM: HM65256BLFP-10(X14:IC28)

													4.1 Pin connection
Vss 14	1/02 □13	1/01 🛘 12	1/00 🛮 11	A0 [10	A 1 🔲 9	A 2 8	A3 [7	A 4 [6	As [5	A 6 4	A7 [3	A 12 2	A 14 1
15 1/03	16 1/04	17 1/05	18 1/06	19 1/07	20 CE	21 A 10	22] OE	23 A 11	24 🛮 A 9	25 A 8	26 A 13	27]WE	28] Vcc

4.2 Function table

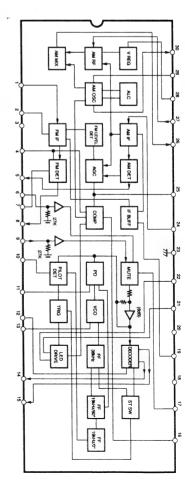
I	_	_	_	CE
١	π	×	۲	잁
×	I	۲	I	WE
High Z	High Z	High Z	Low Z	I/O pin
Refresh	1	Write	Read	Mode
	L X High Z	L X High Z	Т X L High Z Нigh Z	С X High Z L X High Z

CIRCUIT DESCRIPTION

ベバ-V&U4U/V&54U

5 FM, AM, MPX system IC: LA1851N (X13:IC1)

5.1 Block diagram



5.2 Pin description

Pin No.	Function	Remark
	FM IF input	Input impedance: 330Ω
2	FM IF bias	
ω	Vcc	
4	FM AFC output	When FM AFC is detuned, ithe ST LED goes off and the forced monaural mode is set
S)	AM demodulation output	
6	MPX AM DET input	MPX section, AM demodulation input. Input impedance: 27kΩ
,	FM descrimination output	
8	FM demodulation output	Output impedance: 5kΩ
9	MPX FM DET input	MPX section, FM demodulation input. Input impedance
5	MPX Pilot synchronism	MPX VCO stops by shorting the voltage at pin 10 to the VCC line at pin 3. A 3.3kΩ current limiting
ē	detection filter	resistor is required.
=	MPX PLL loop filter	
12	MPX separation control	
13	MPX VCO	Ceramic oscilator
14	MPX L-ch output	
15	MPX R-ch output	
16	AM SD ADJ	
17	MPX AF muting drive	V _H (≥1.5V): Mute ON V _{LO} (<1.5V):Mute OFF
18	AM/FM change	V _H (≥1.5V):FM V _L o(<1.5V):AM
	AM/FM	VHI(≥1.5V):IF CNT ON
19	IF count output	VLO (<1.5V):IF CNT OFF
	SW combined use	
	TU/ST LED	VHI (≥1.5V):LED forced off
20		(Forced monaural mode) VLo(<1.5V):Normal
21	AM/FM TU LED	
22	MPX ST LED	
23	AM/FM MPX GND	
24	AM IF input	Input impedance: 2kΩ
25	AM AGC output, FM S meter	
1	output	
26	AM MIXER output	
27	AM RF input	
28	V Reg	Vreg=2.3V
29	AM OSC	
3	AM OSC buffer output	

7.1 Block diagram

MONITOR OUT 1

GND 2

15 CTL A

16 N 1

14 VOUT 1

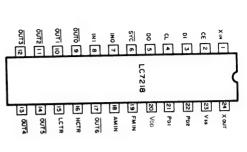
N5 3

7 Video amp. selector: BA7626 (X09: IC3)

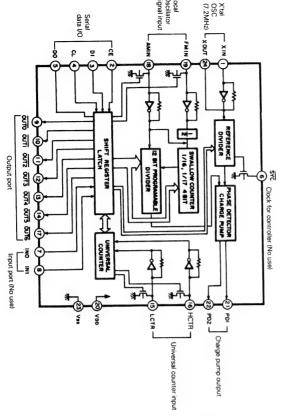
6 PLL IC:LC7218 (X13:IC2)



6.1 Pin connection



6.2 Block diagram



7.2 Function table

CTLD 8

CTLE 6

N3 7

10 VOUT 2

11 CTL B

9 CTL C

GND 4

13 VCC

12 IN2

IN5	N5	IN5	I	I	I	I	I
NA	IN4	IN4	_	I	I	I	I
IN3	īN3	IN3	*	I	٦	I	_
	IN2	IN2	*	١	Ι	_	ı
Z		N.1	*	٦	٢	L	_
V OUT2	V OUT1	MONITOR OUT	т	0	С	В	D

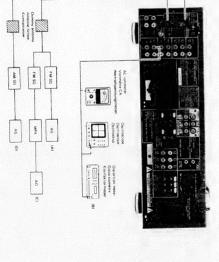
H: High
L: Low
*: High or Low

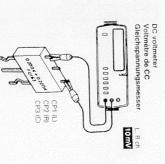
C

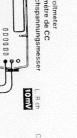
KR-V8040/V8540 ADJUSTMENT

AM Section: If alignment piont is "-". Confirm the value.
If mot replace the front end pack

< 1.5 IDIE CURRENT	AUDIO	(1) TUNING LEVEL	AM SEC	5 TUNING LEVEL	4 SEPARATION	3 DISTORTION (STERBO)	2 DISTORTION (MONO) (T.B type only)	1 DISCRIMINATOR	FM SEC	No. ITEM	
CURRENT	SECTION	TakaT (SECTION		ATION			INATOR	SECTION	프	f act repl
	ON	(D) 1000(999)kHz 20dBµ(ANT input)	SE	(A) 98.0MHz 0dev 14dBu(ANT input) 75H	(C) 98.0MHz Stereo signal 60dB(ANT input)	(C) 98.0MHz 98.0MHz 98.25kHz dov Selector:L or R Pilot:±6.75kHz dev 60dBu(ANT input)	(C) 98.0MHz 98.0MHz dev Selector:L or R Pilot:±6.75kHz dev 60dBµ(ANT input)	(A) 98.0MHz 1kHz,±75kHz dev 60dBµ(ANT input)	SEL	SETTINGS	If not replace the front end pack.
(E) Connect a DC voltmeter across CPI(L) CP2(R) CP3(C) (YMG-)		(8)	SELECTOR: AM	(B)	(8)	(8)	(B)	Connect a DC voltmeter between TP3 and TP4. (XI3-)	SELECTOR: FM	SETTINGS	
Volume:0		1		AUTO or MONO 98.0MHz	AUTO 98.0MHz	98.0MH2	98.0MHz	AUTO or MONO 98.0MHz		SETTINGS	
VR1(L) VR2(R) VR3(C) (X09-)		YR2 (X13-)		VR1 (X13-)	VR3 (X13-)	(¥02-)	L4 (X13-)	(X13-)		POINTS	
IOmV(L,R) SmV(C)		where EDI(TUNED) goes on.	1000	Adjust VRI and stop at the point where EDI(TUNED)goes on.	Minimum crosstalk	Winimum distortion (L or R)	Winimum distortion	VO		ALIGN FOR	
€			1					8	1	FIG	1

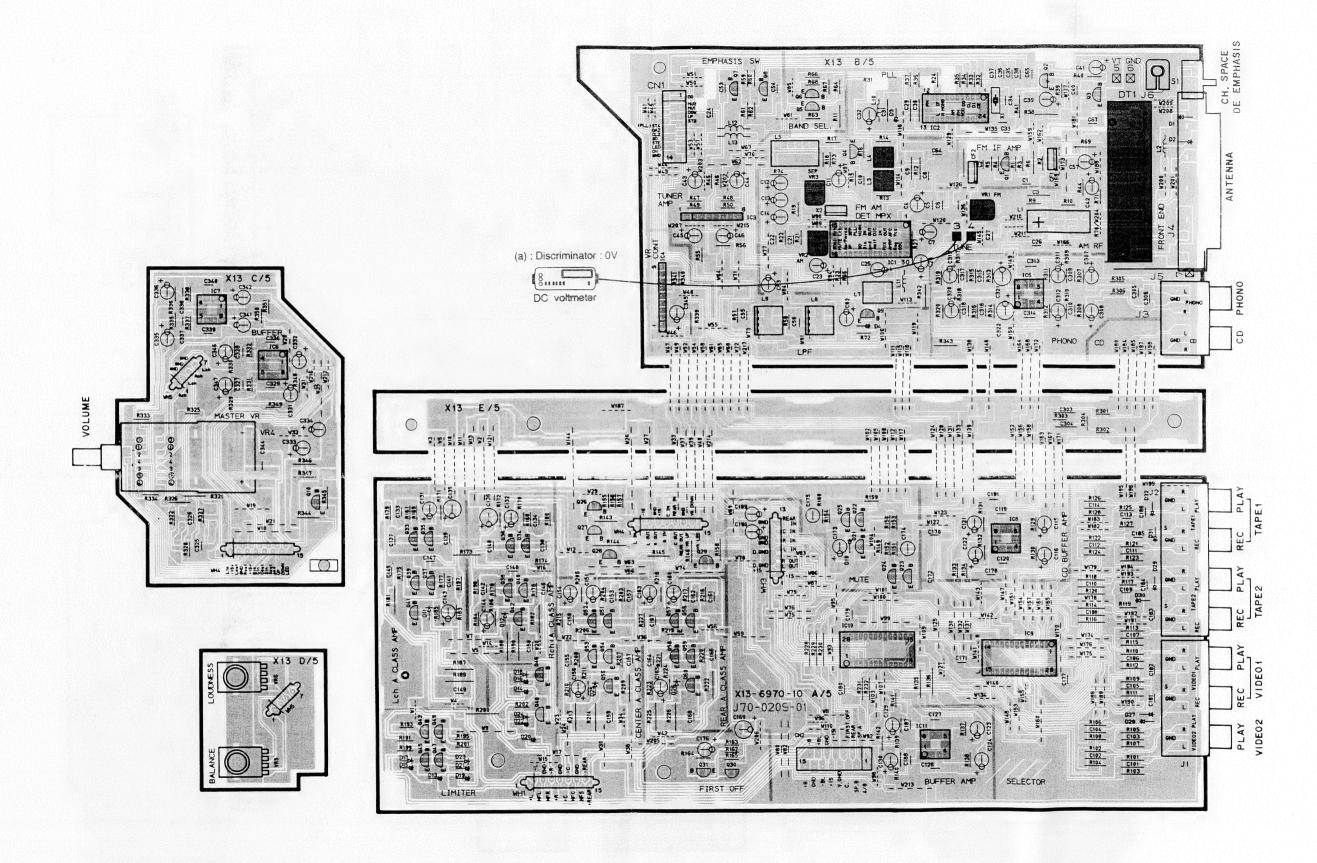


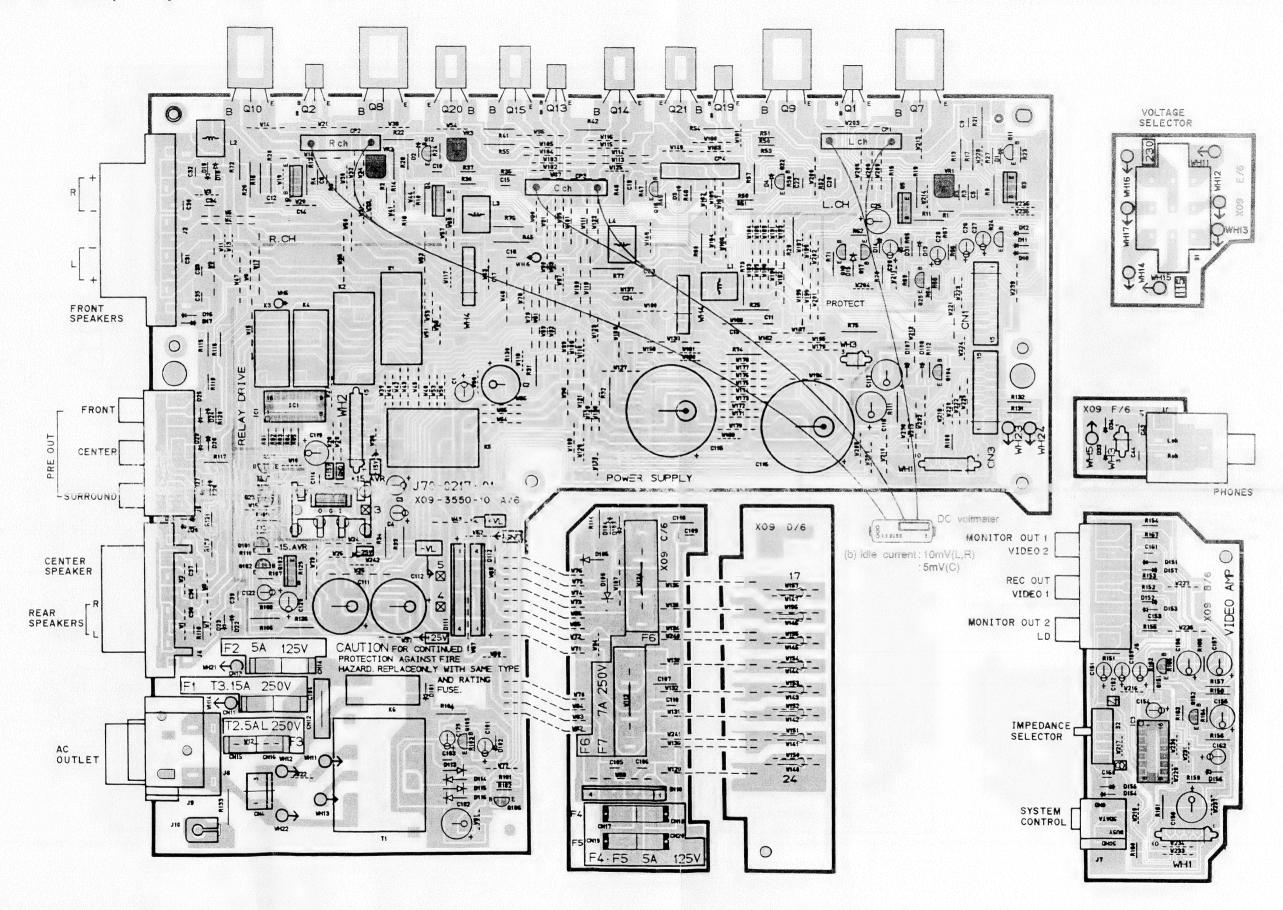




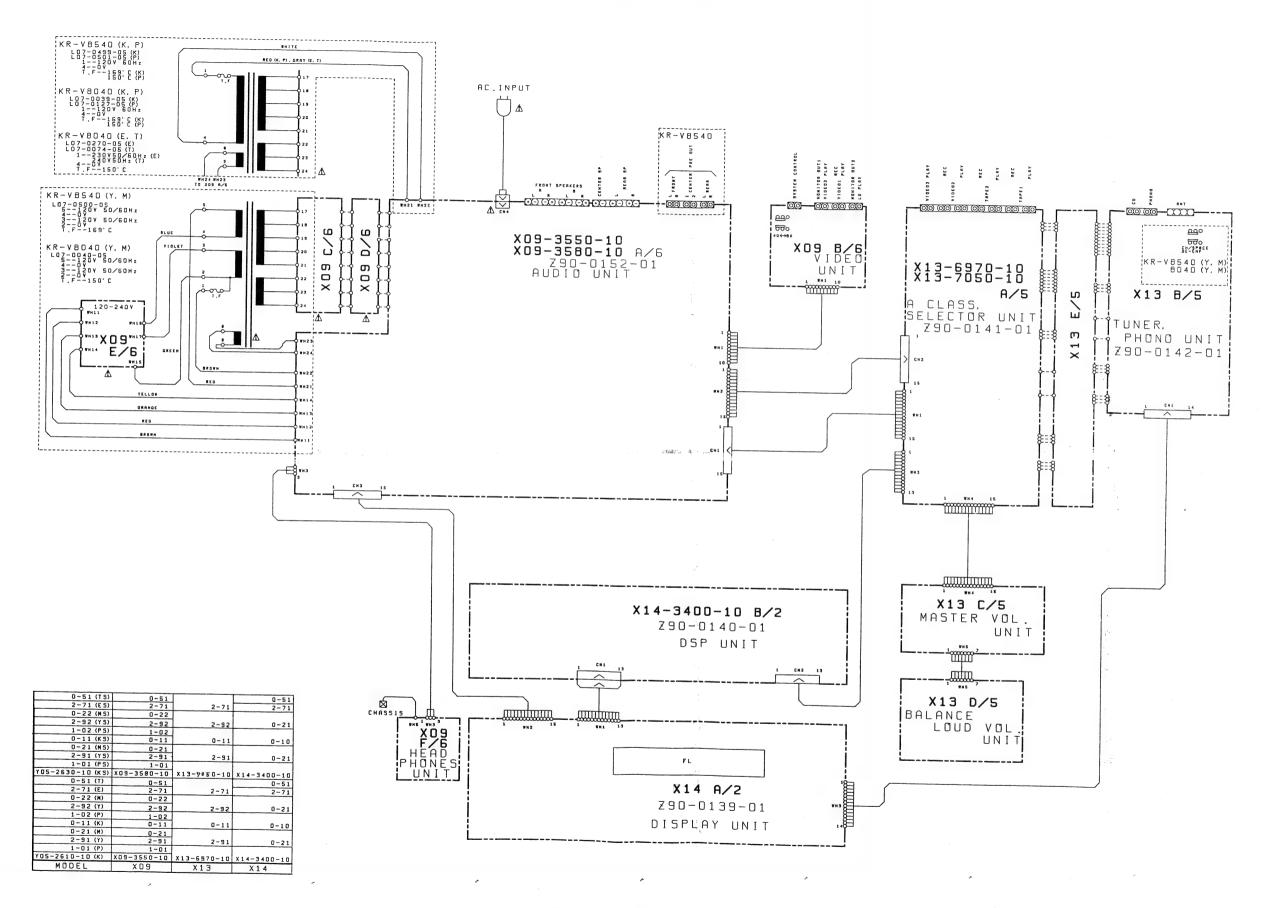


PC BOARD (Component side view)

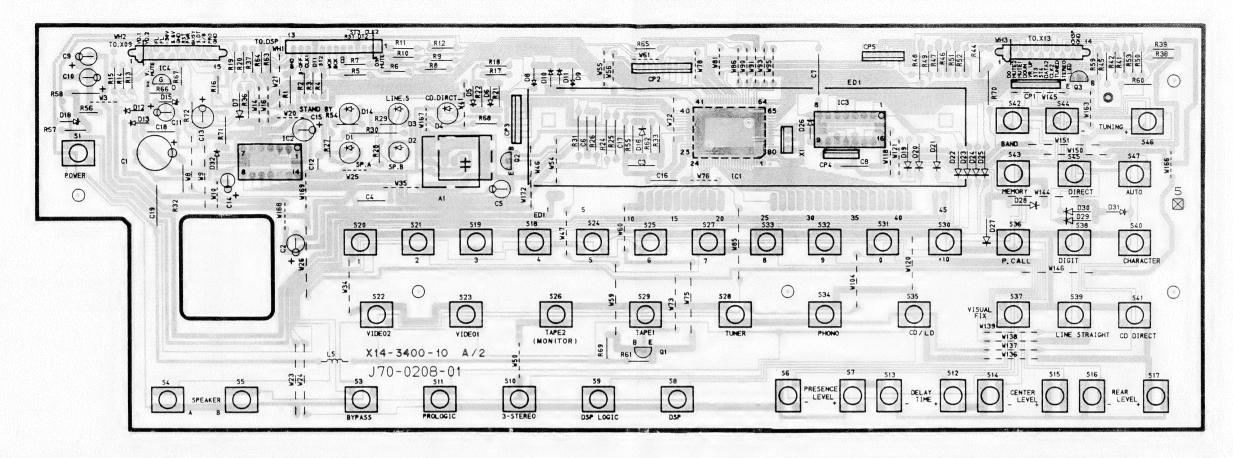


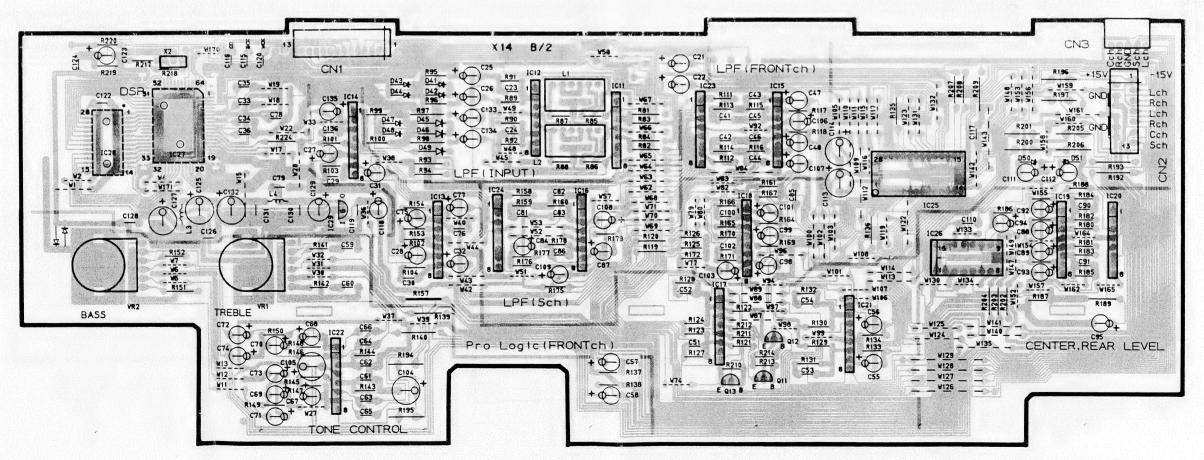


KR-V8040/V8540 KR-V8040/V8540 WIRING DIAGRAM

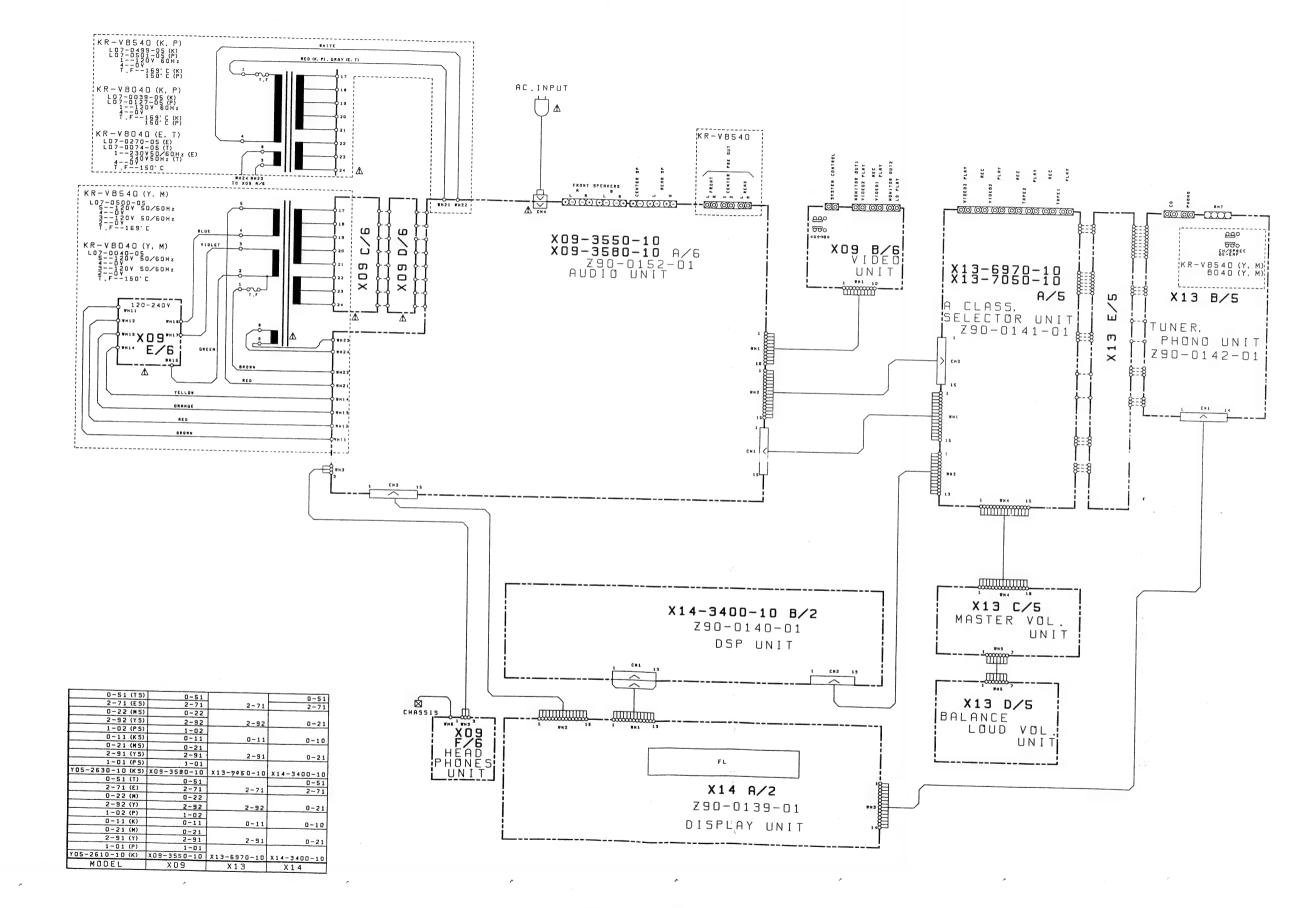


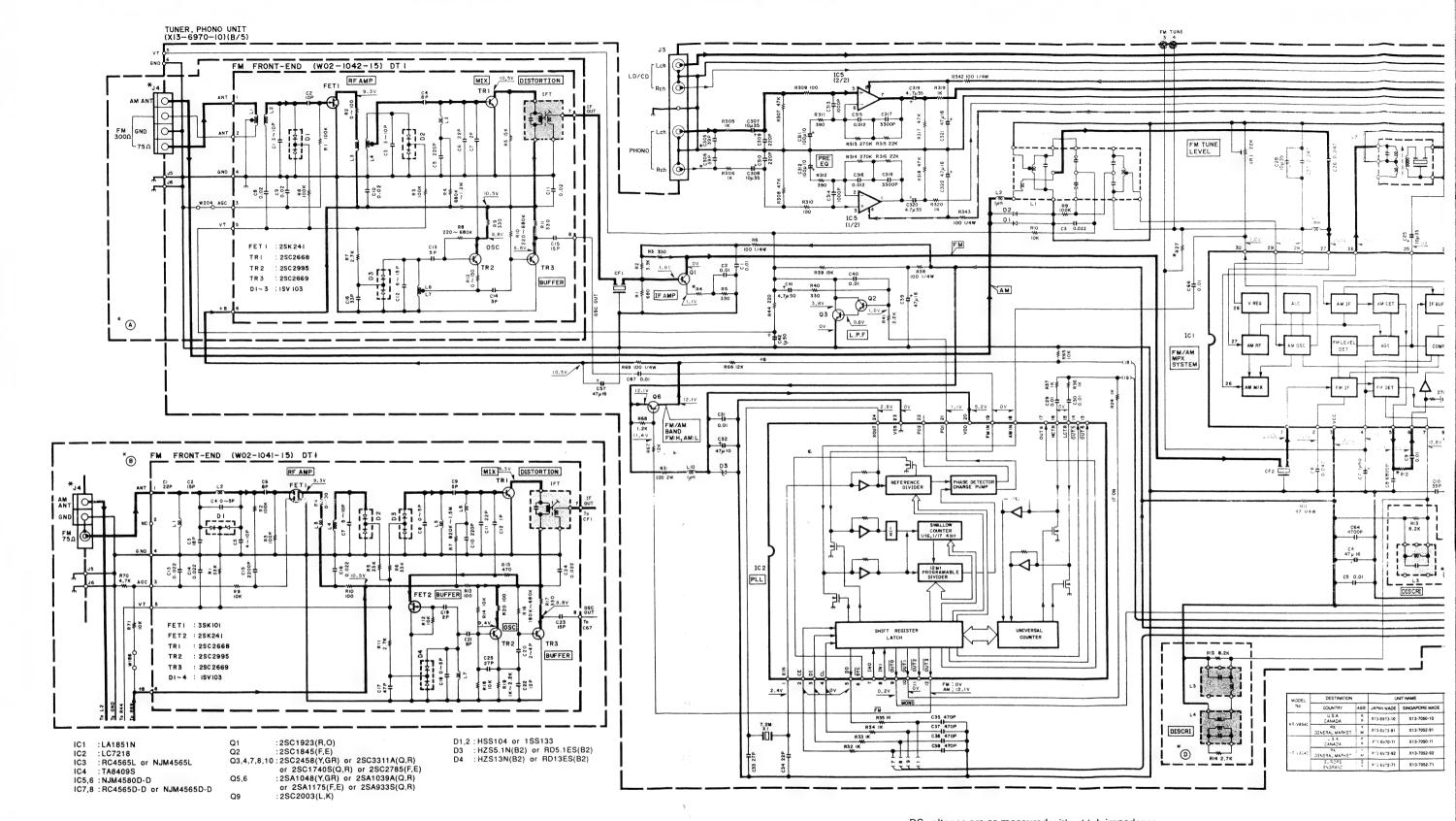
PC BOARD (Component side view)



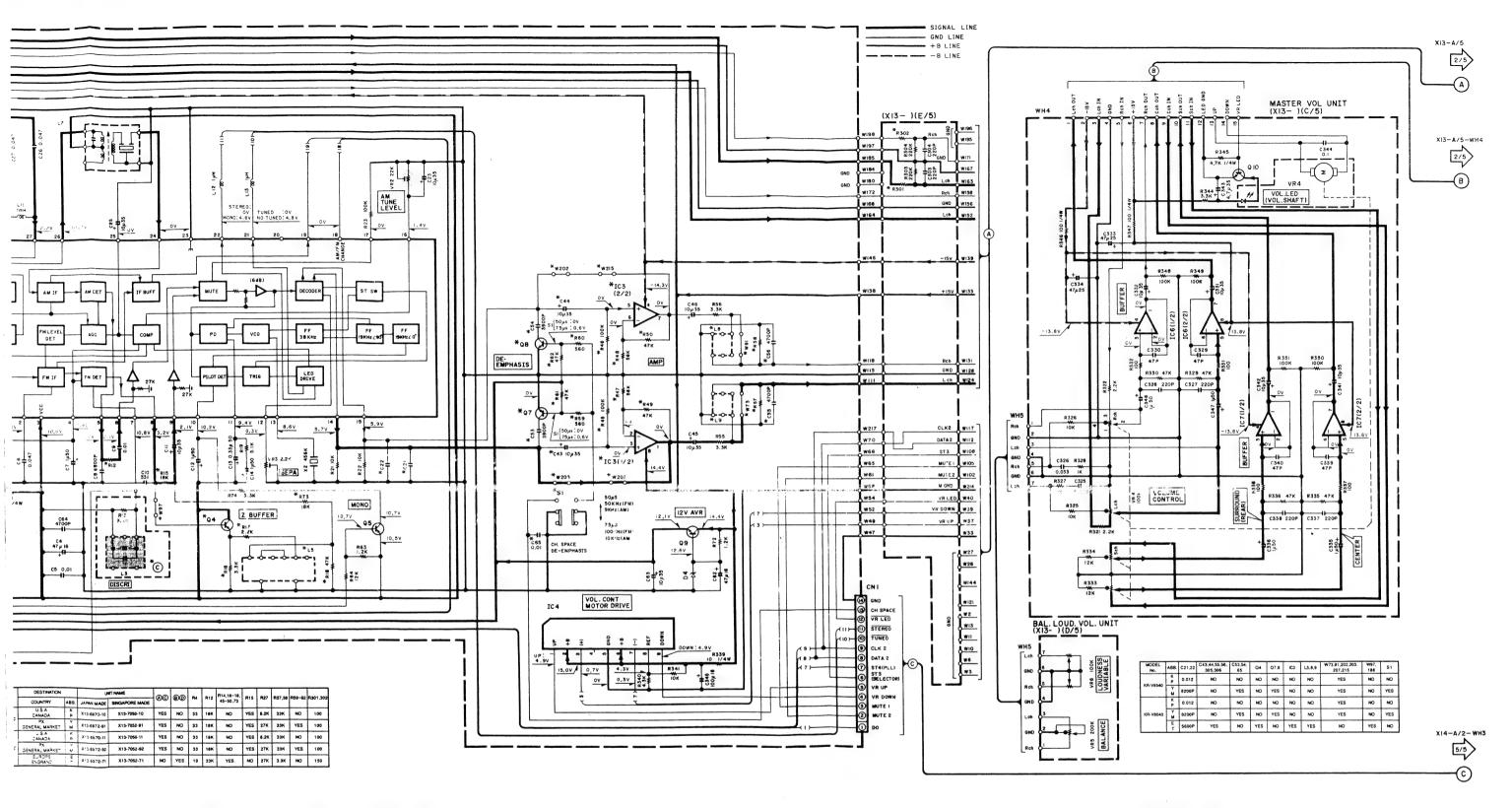


KR-V8040/V8540 KR-V8040/V8540 WIRING DIAGRAM





DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.



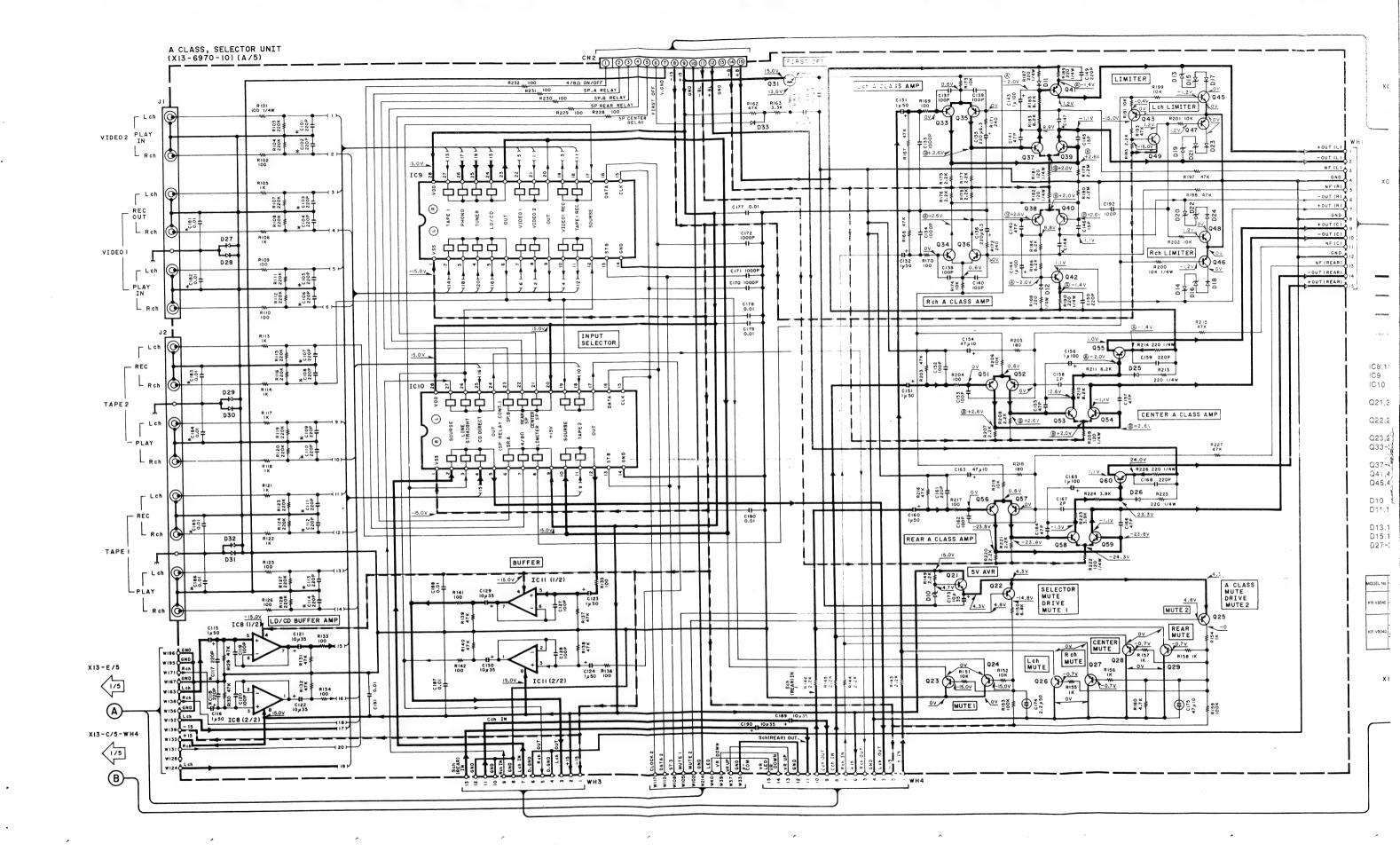
CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list).

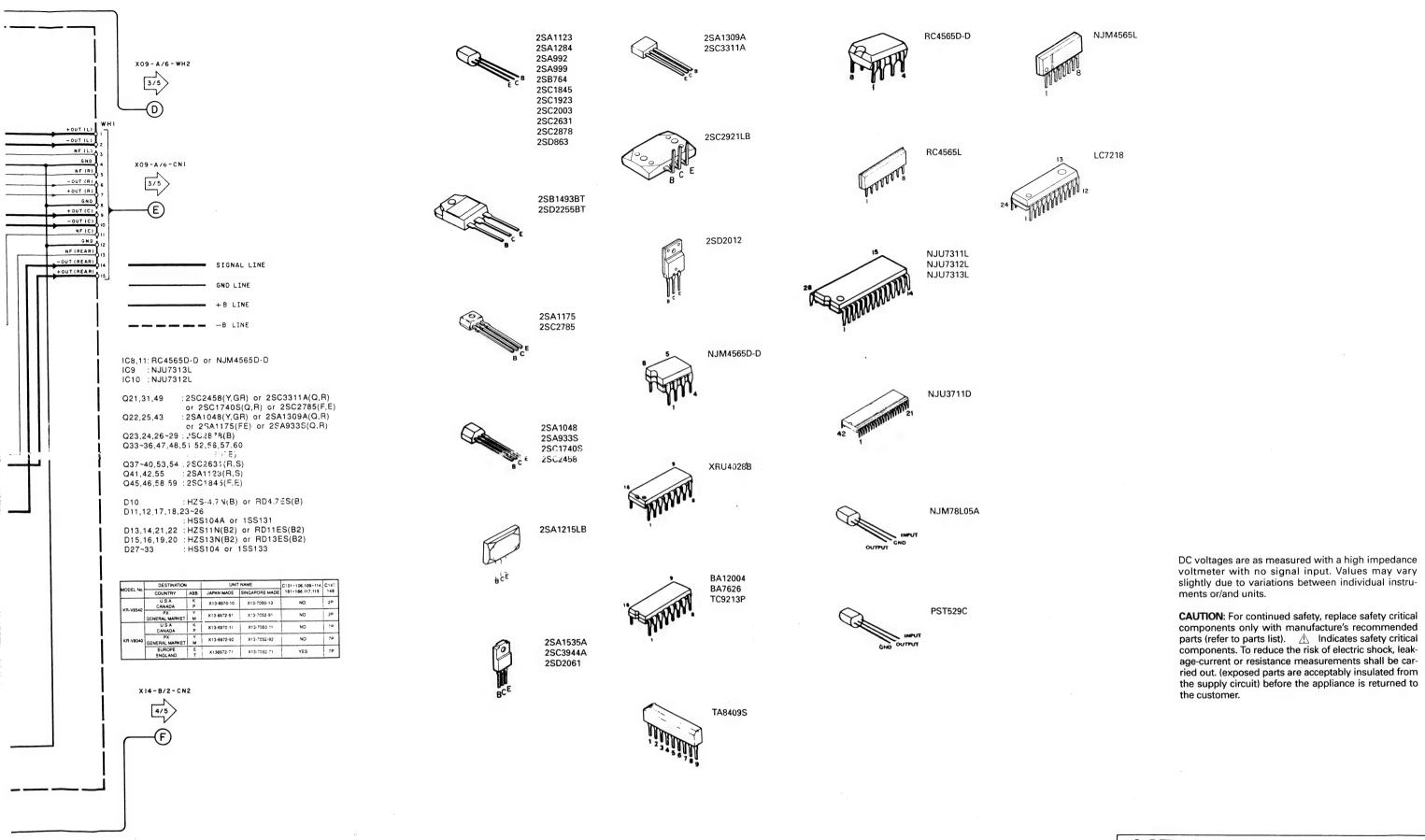
Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out. (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

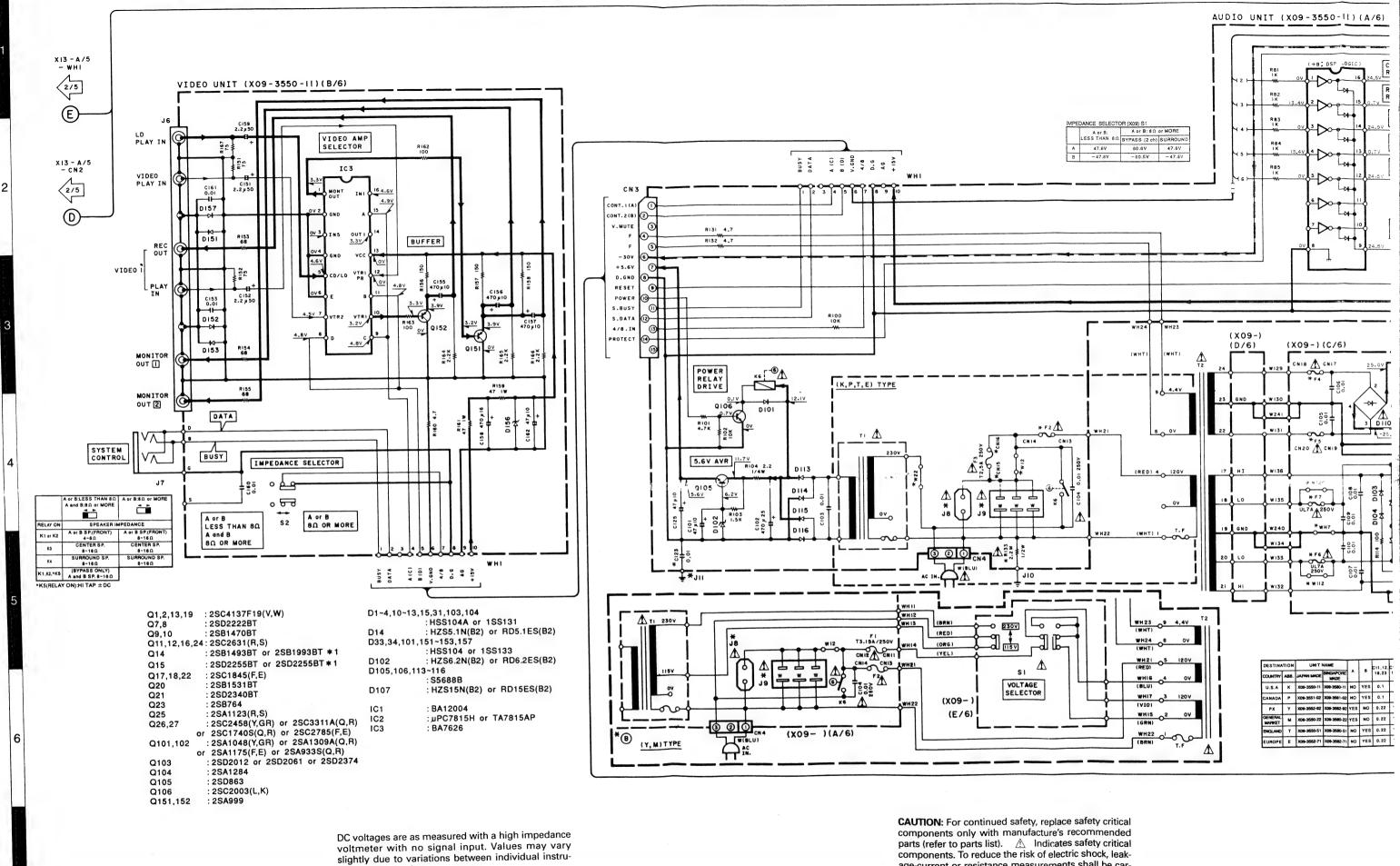
Y05-2610-10

KR-V8040/V8540 KENWOOD

KR-V8040/V8540 (1/6)



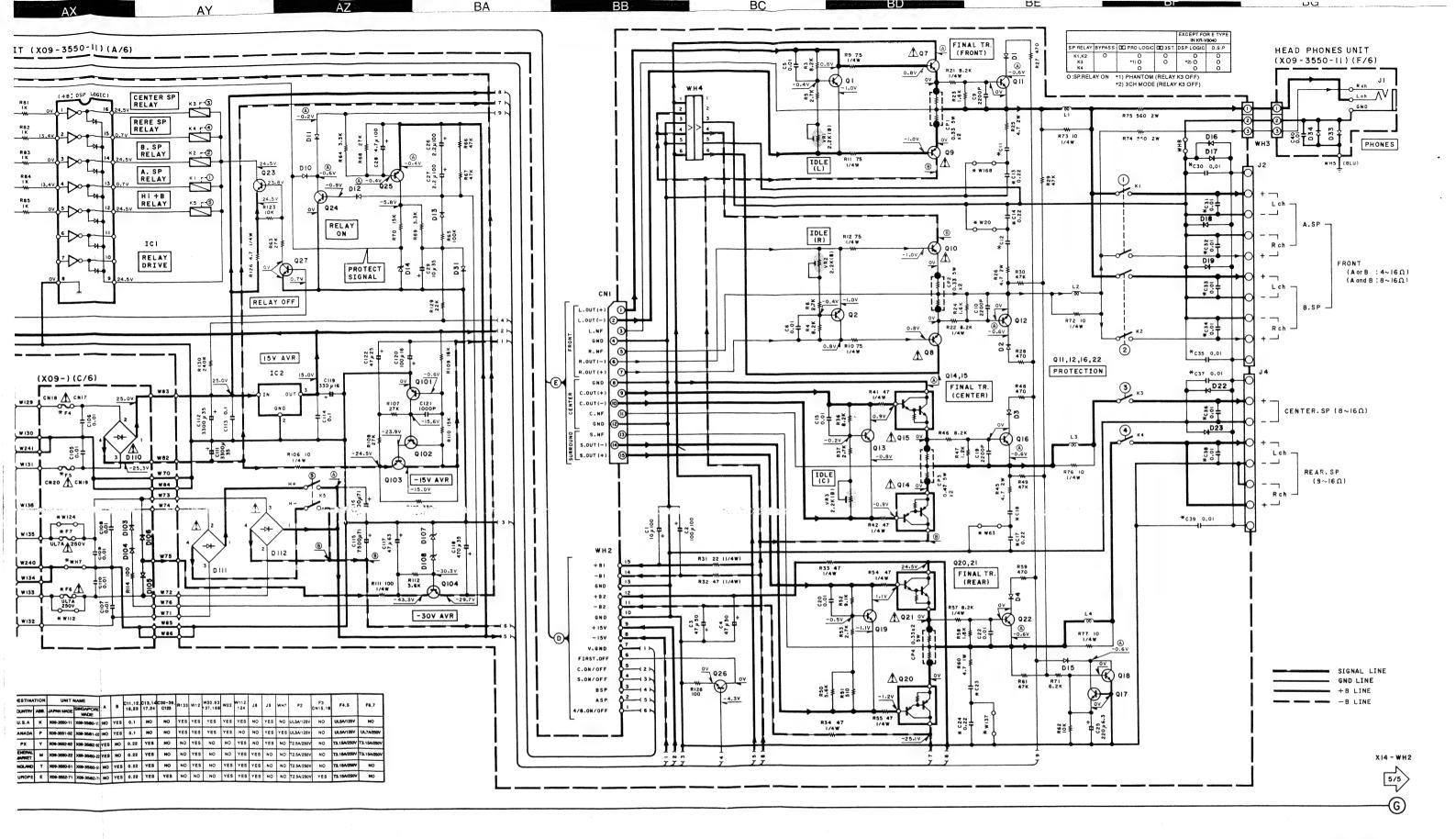




ments or/and units.

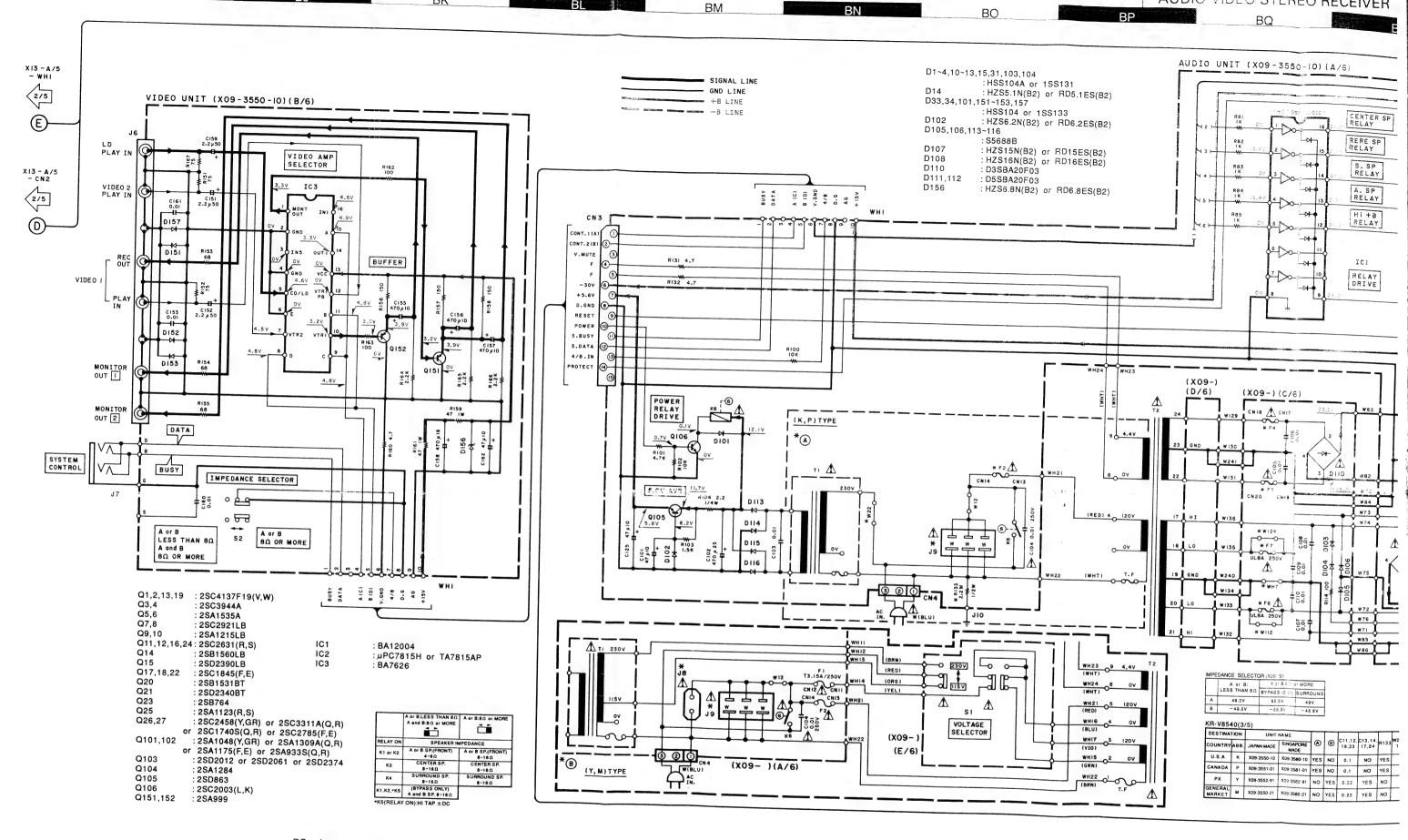
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components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out. (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



Y05-2610-10

KR-V8040/V8540 KENWOOD



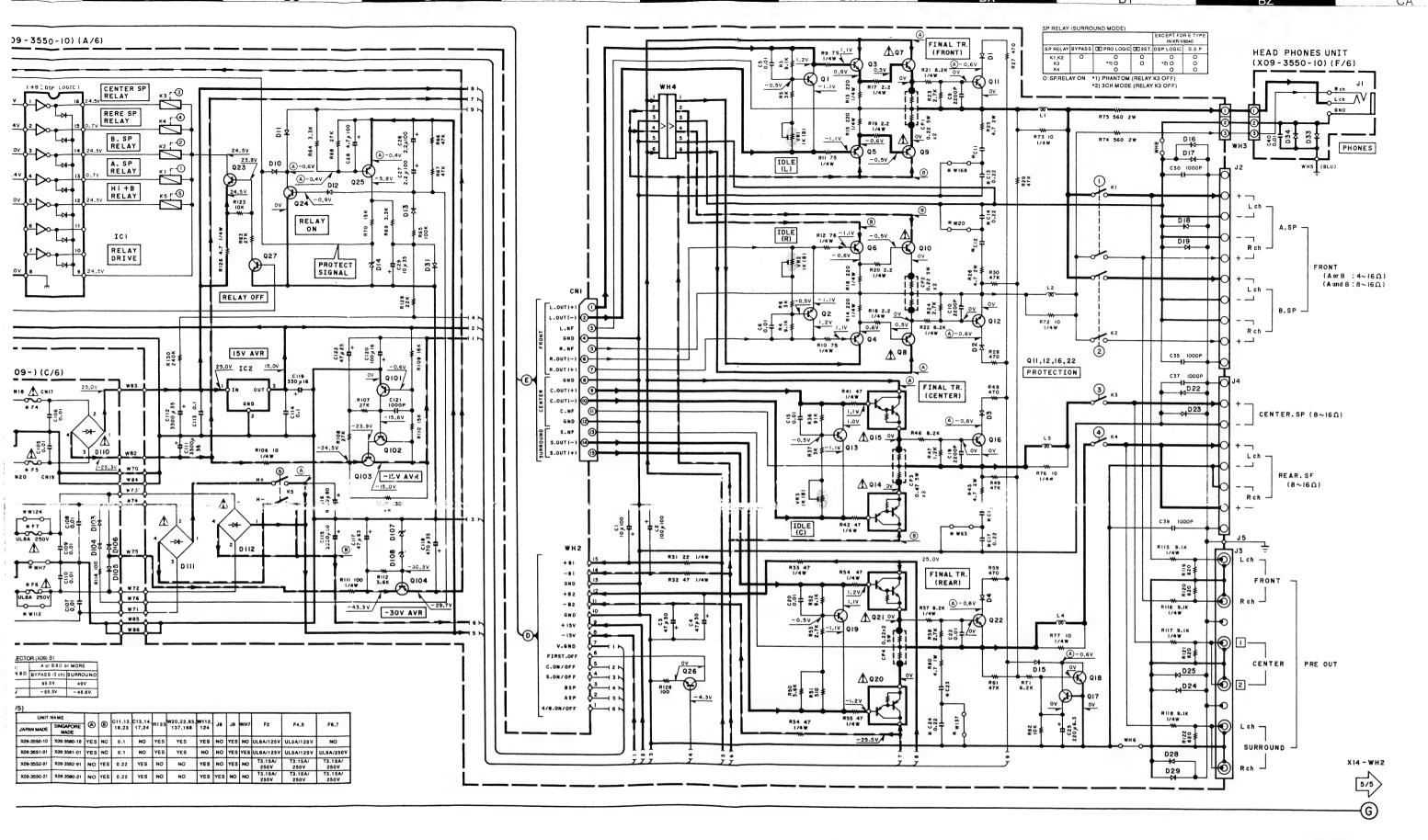
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

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CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). A Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out. (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

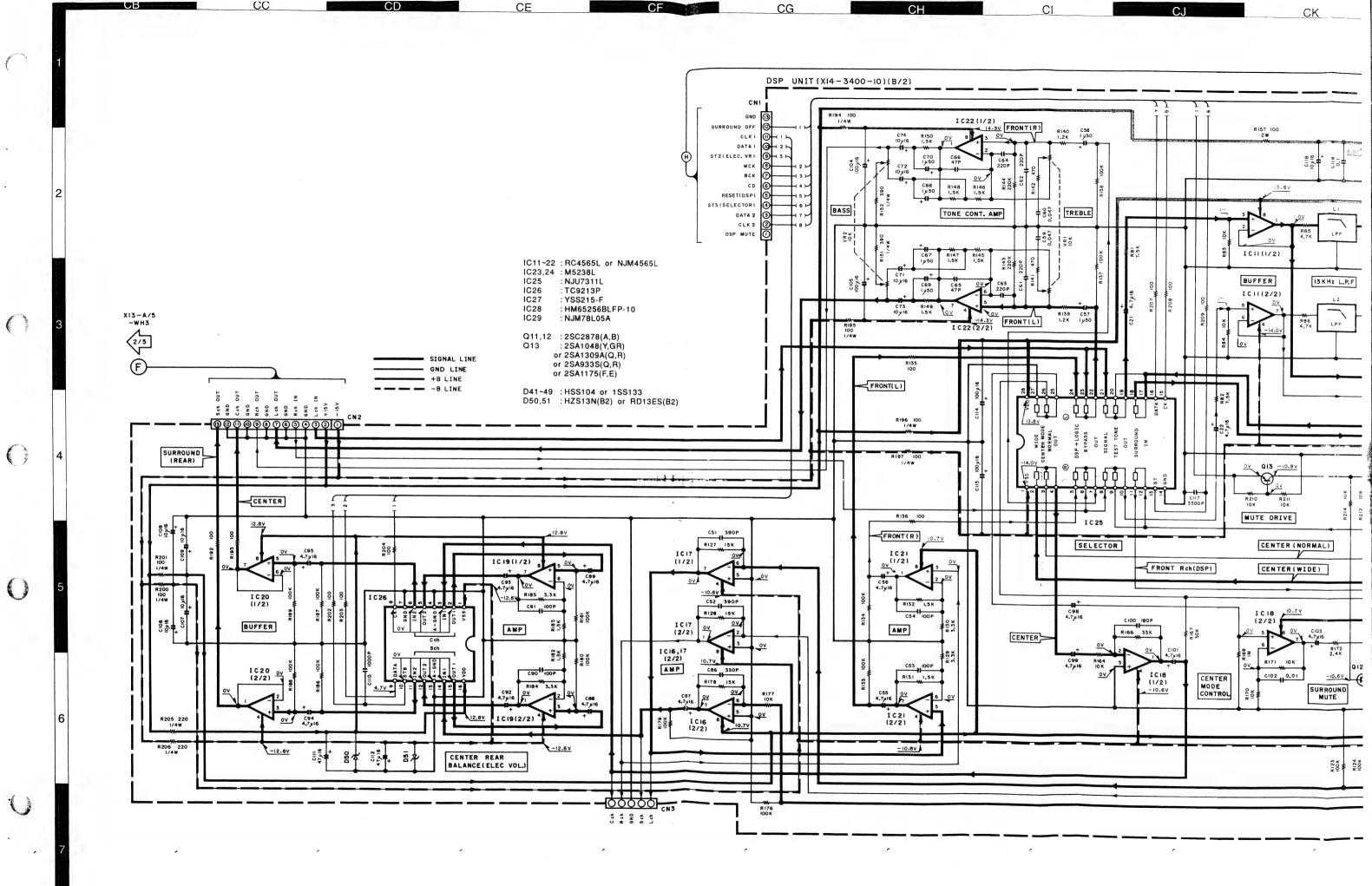
AUDIO-VIDEO STEREO RECEIVER

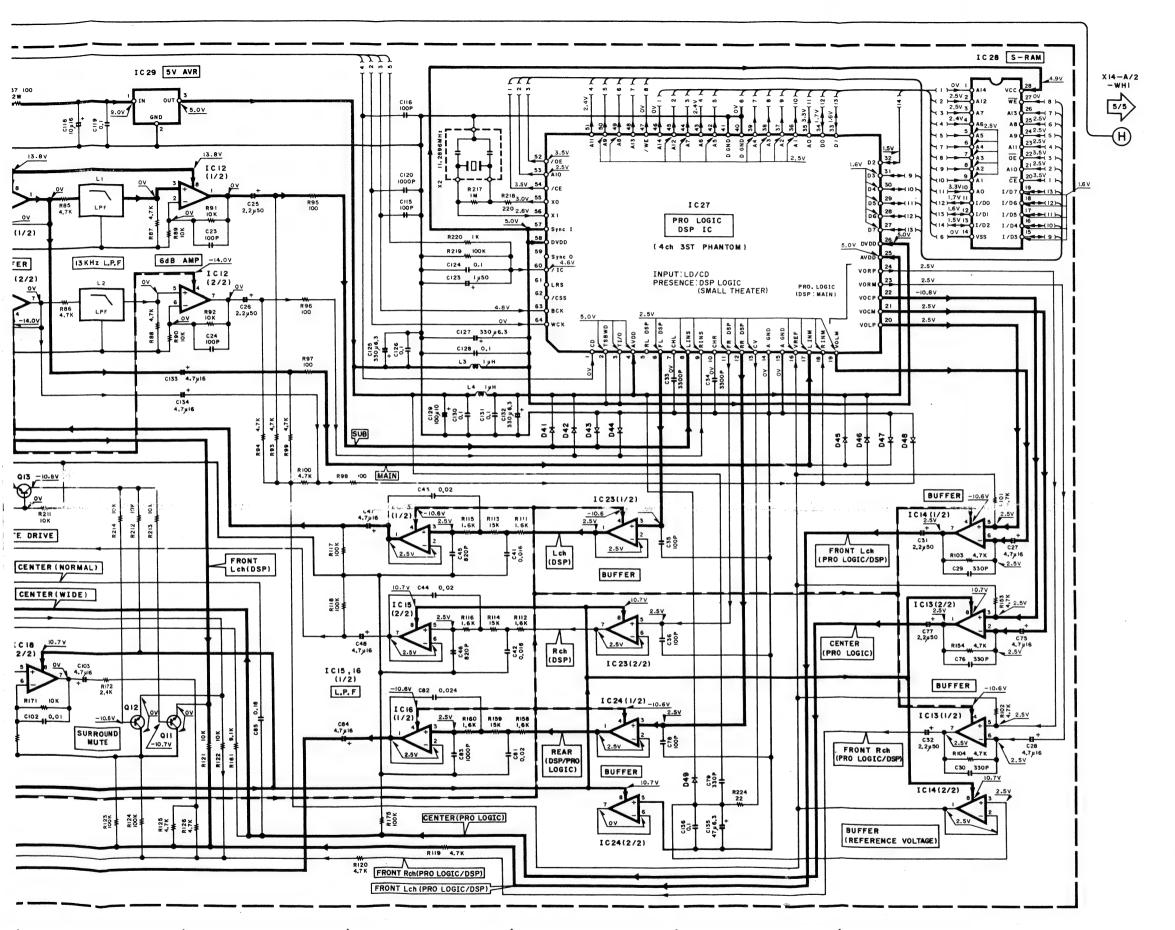


Y05-2610-10

KR-V8040/V8540 KR-V8540 (4/6)

KENWOOD





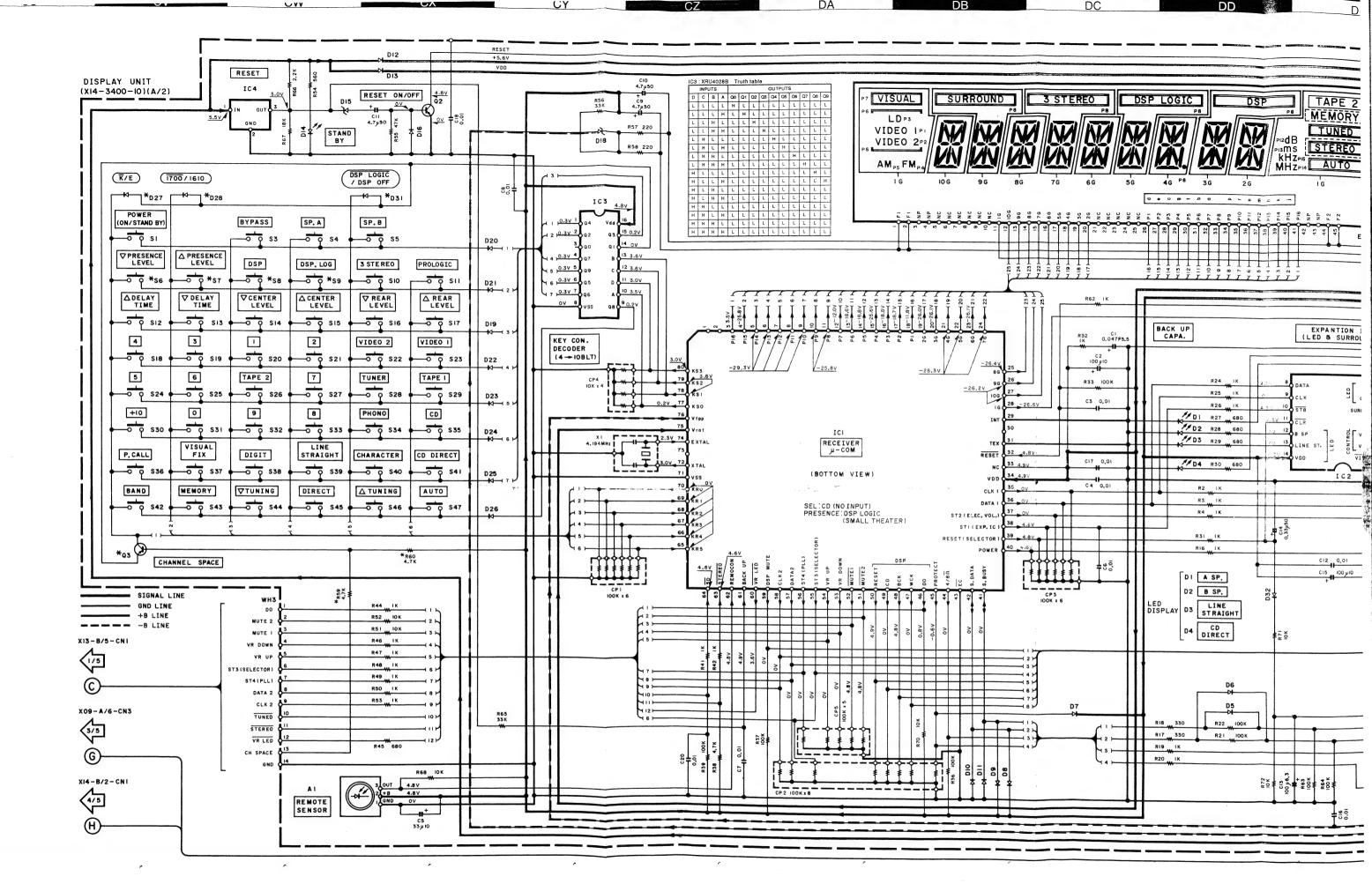
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

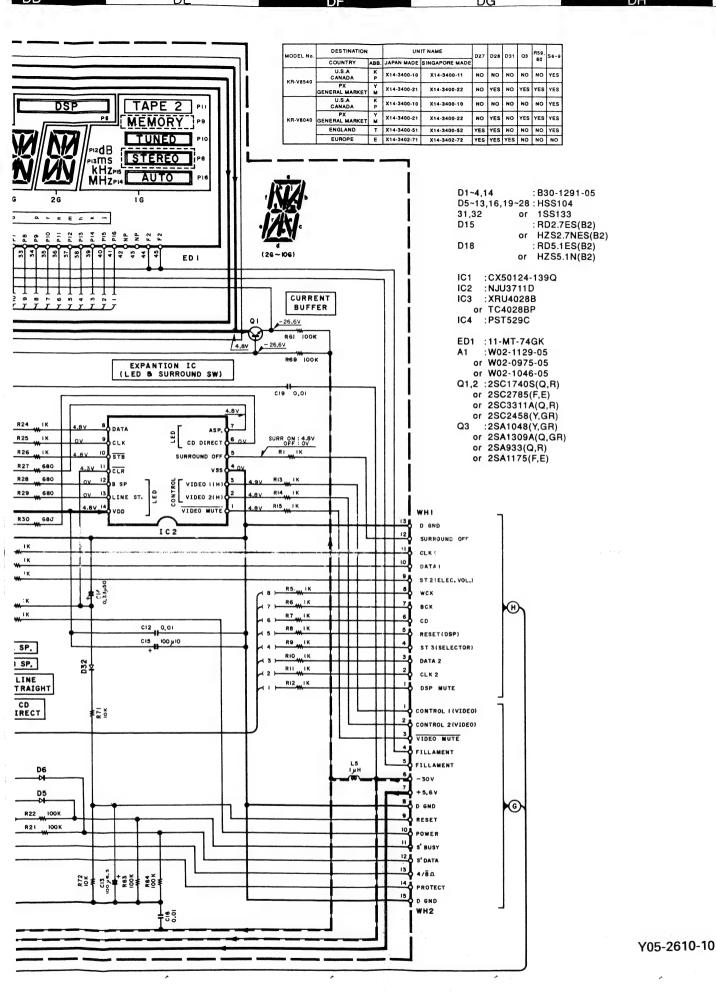
CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). \(\triangle \) Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out. (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y05-2610-10

KR-V8040/V8540 (5/6)

KR-V8040/V8540 KENWOOD





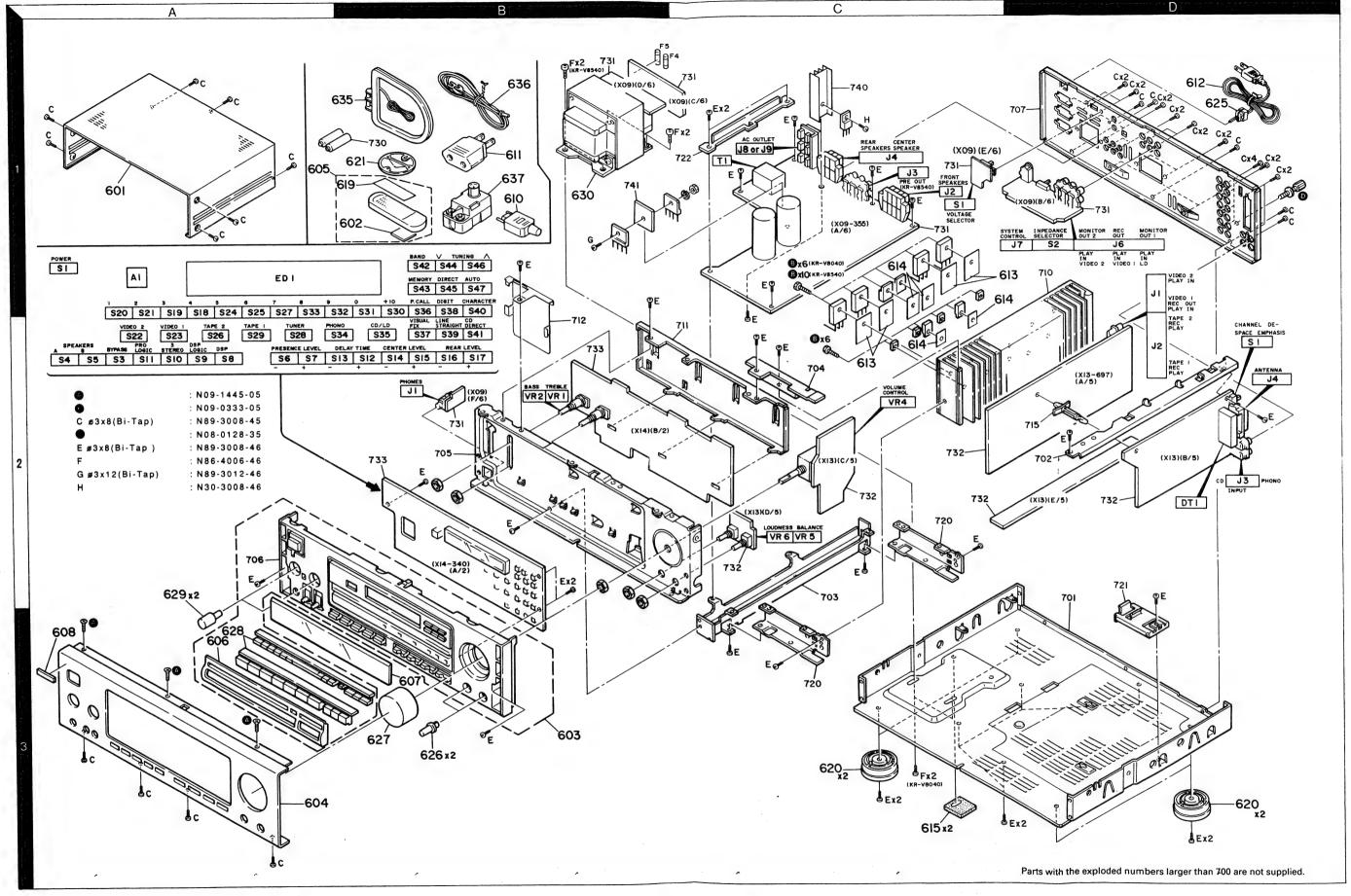
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). An Indicates safety critical components. To reduce the disk of electric shock leakage-current or resistance measurements shall be carried out. (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KR-V8040/V8540 (6/6)

KR-V8040/V8540 KENWOOD

KR-V8040/V8540 KR-V8040/V8540 EXPLODED VIEW



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KR-V8040/V8540 PARTS LIST

KR-V8040/V8540 PARTS LIST

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POWER POWER	0-040-0	L07-003 L07-004 L07-007 L07-012
SET SCRE TAPPING 15 BINDING 85 BINDING 16 BINDING	0-88	NO9-1445 NO9-0333 N89-3008 NO8-0128 N89-3008
46 BINDING	,	N86-4006
15 LOOP ANTE 15 TYPE AN 15 ANTENNA A	999	T90-0174 T90-0175 T90-0185
V8040 (SINGAPORE	١.	쯌
METALLIC BATTERY C SUB PANEL SUB PANEL PANEL	01101	A01-1829- A09-0126- A22-1542- A22-1544- A60-0168-
PANEL NEMOTE	99	A60-0216 X94-1010
ESCUTCHEO 13 FRONT GLA 14 KENWOOD B 13 WARRANTY WARRANTY	99979	B07-1999- B10-1904- B43-0287- B46-0092- B46-0094-
WARRANTY WARRANTY WARRANTY WARRANTY WARRANTY		846-0095-0 846-0096-3 846-0121-1 846-0122-2 846-0143-1
QUESTIONAIRE CAUTION CARD 10 INSTRUCTION M 10 INSTRUCTION M 10 INSTRUCTION M	0000	B46-0197-00 B58-0513-04 B60-0719-00 B60-0720-00 B60-0721-00
OO INS	ĢΘ	B60-0722- B60-0723-
85 S S S S S S S S S S S S S S S S S S S	97779	E03-0049- E03-0115- E30-2592- E30-2593- E30-2605-
JS AC	0-	E30-2650
INSUL.	99	F20-1284 F20-1297
NON SOF	0-0	G10-0148 G11-2119
D2 POL	1-0:2-0:	H10-528

Ref. No.	Addre	SS	New	Parts No.	Description	Desti-	Re-
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614	20		*	F20-1297-05	INSULATING SHEET		
615 619	3C 1B		* *	G10-0148-04 G16-0773-08 G11-2119-04	NON-WOVEN FABRIC WRITING SHEET SOFT TAPE		
1111			** *	H10-5254-02 H10-5255-02 H25-0225-04 H25-0232-04 H50-0216-04	POLYSTYRENE FOANED FIXTURE POLYSTYRENE FOANED FIXTURE PORTECTION NAC (850X450X0.03) PROTECTION NAC (235X350X0.03) ITEM CARTON CASE		ທ ທ ທ
620 621 625	3C,3 18 10	Δ		J02-1034-05 J19-2815-04 J42-0083-05 J61-0307-05	FOOT ANTENNA HOLDER POWER CORD BUSHING WIRE BAND		
626 627 628 629	33B 3A 2A		* *	K29-3632-04 K29-4110-04 K29-4345-02 K29-4347-04	KNOB(LOUDNESS, BALANCE) KNOB(VOLUME CONTROL) KNOB(1-0,+10,1NPUT SELECTOR) KNOB(BASS, TREBLE)		
630 630 630	118			L07-0224-05 L07-0225-05 L07-0226-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	⊼≻.ơ ≅	
EDCB.	3A 1C,2 1A,1 1D	U.O.		NO9-1445-05 NO9-0333-05 NO9-3008-45 NO8-0128-35 NO8-3008-46	SET SCREW (M3X8) TAPPING SCREW (3X12) BINDING HEAD TAPTITE SCREW BINDING POST (GND) BINDING HEAD TAPTITE SCREW		
íz.	1C, 3	U		N86-4006-46	BINDING HEAD TAPTITE SCREW		
635 636	1B 1B			T90-0174-05 T90-0175-05	LOOP ANTENNA T TYPE ANTENNA		ഗ
		1			PORE		
601 602 603 604 605	11A 33A 11A		* ***	A01-1829-11 A09-0111-08 A22-1542-12 A60-0167-02 A70-0574-05	HETALLIC CABINET BATTERY COVER SUB PANEL ASSY PANEL REMOTE CONTROLLER ASSY		
606 607 608	3 A B B		* *	B07-1999-02 B10-1904-03 B43-0287-04 B46-0092-13 B46-0094-03	ESCUTCHEON FRONT CLASS KENNOOD BADGE WARRANTY CARD	*>	
1 1 1 1 1			*	B46-0095-03 B46-0121-13 B46-0197-00 B58-0513-04 B60-0715-00	WARRANTY CARD WARRANTY CARD WORDSTIONAIRE CARD CAUTION CARD (PRESET220-240) INSTRUCTION MANUAL(ENGLISH)	> \(\times \times \times \)	ហ
1 1			* *	B60-0716-00 B60-0718-00	INSTRUCTION MANUAL(FRENCH) INSTRUCTION MANUAL(SP,CH)	ΔΣ	ഗഗ
611 612 612 612	10 10 10			E03+0115-05 E30-2592-15 E30-2605-05 E30-2650-05	AC PLUG ADAPTOR AC POWER CORD AC POWER CORD AC POWER CORD	ZE>X G	
613	2C		*	F20-1285-05	INSULATING BOARD		

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		KR - V8040	(JAPAN MADE)		
11 12 33 33 33 33 33 33 33 33 33 33 33 33 33	* ***	A01-1829-11 A09-0115-13 A22-1542-12 A22-1544-12 A60-0168-02	METALLIC CABINET BATTERY COVER SUB PANEL ASSY SUB PANEL ASSY PANEL	KPYMT E	
3A	* *	-0216-02 -1000-41	PANEL REMOTE CONTROL ASSY UNIT	KPYMT	
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	* *	B07-1999-02 B10-1904-03 B43-0287-04 B46-0092-13 B46-0094-03	FRONT CLASS REMOND BADGE WARRANTY CARD	× ≻	
		B46-0095-03 B46-0096-33 B46-0121-13 B46-0122-23 B46-0143-13	WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD	> F & U F	
	***	B46-0197-00 B58-0513-04 B60-0719-00 B60-0720-00 B60-0721-00	QUESTIONAIRE CARD CAUTION CARD (PRESET220-240) UNSTRUCTION MANUALGENGLISH) INSTRUCTION MANUALGENGLISH) INSTRUCTION MANUALGENGLISH)	K Y KPYMT P	໙໙໙
	* *	B60-0722-00 B60-0723-00	INSTRUCTION MANUAL(F,G,D) INSTRUCTION MANUAL(SP,CH)	ωÆ	ທທ
88999		E03-0049-05 E03-0115-05 E30-2592-15 E30-2593-15 E30-2605-05	AC PLUG AC PLUG ADAPTOR AC POWER CORD AC POWER CORD AC POWER CORD	~~ B F~	
10		E30-2650-05	AC POWER CORD	КР	
2C 2C	*	F20-1284-05 F20-1297-05	INSULATING BOARD INSULATING SHEET		
30	*	G10-0148-04 G11-2119-04	NON-WOVEN FABRIC SOFT TAPE		
	**	H10-5254-02 H10-5255-02 H25-0225-04 H25-0232-04 H25-0651-04	POLYSTYRENE FOAMED FIXTURE POAMED FIXTURE PROTECTION BAG (850X450X0.03) PROTECTION BAG (235X350X0.03) PROTECTION BAG (0232 PRINTED)	KPYME KPYME T	ທທ
M-10-10-10-10-10-10-10-10-10-10-10-10-10-	*	H25-0654-04 H50-0218-04	PROTECTION BAG (0225 PRINTED) ITEM CARTON CASE	-	w
3C,3D 18 1D		J02-1034-05 J19-2815-04 J42-0083-05 J61-0307-05	FOOT ANTENNA HOLDER POWER CORD BUSHING WIRE BAND		
33B 34A 24A	**	K29-3632-04 K29-4110-04 K29-4345-02 K29-4347-04	KNOB(LOUDNESS, BALANCE) KNOB(VOLUME CONTROL) KNOB(1-0,+10,INUT SELECTOR) KNOB(BASS,TREBLE)		-

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Description 断品名/魏格	PROTECTION BAG (850X450X0.03) PROTECTION BAG (235X350X0.03) PROTECTION BAG (0232 PRINTED) PROTECTION BAG (0225 PRINTED) ITEM CARTON CASE	ITEM CARTON CASE ITEM CARTON CASE	FOOT ANTENNA HOLDER POWER CORD BUSHING WIRE BAND	KNOB (LOUDNESS, BALANCE) KNOB (VOLUME CONTROL) KNOB (1-0,+10,INPUT SELECTOR) KNOB (BASS,TREBLE)	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	SET SCREW (M3X8) TAPPING SCREW (3X12) BINDING HEAD TAPTITE SCREW BINDING PGST (CND) BINDING HEAD TAPTITE SCREW	BINDING HEAD TAPTITE SCREW	LOOP ANTENNA T TYPE ANTENNA ANTENNA ADAPTOR	(JAPAN	METALLIC CABINET ATTERY COVER SUB PANEL ASSY PANEL REMOTE CONTROLLER ASSY	ESCUTCHEON FRONT CLASS RENNOOD BADGE WARRANTY CARD	WARRANTY CARD WARRANTY CARD WESTIONALFE CARD CAUTION CARD (PRESET220-240) INSTRUCTION MANUAL(ENGLISH)	INSTRUCTION MANUAL(FRENCH) INSTRUCTION MANUAL(SP,CH)	AC PLUG ADAPTOR AC POWER CORD AC GROWER CORD AC POWER CORD AC POWER CORD	INSULATING BOARD
Parts No. 數品事与	H25-0225-04 H25-0232-04 H25-0651-04 H25-0654-04 H25-0658-04	H50-0289-04 H50-0316-04	J02-1034-05 J19-2815-04 J42-0083-05 J61-0307-05	K29-3632-04 K29-4110-04 K29-4345-02 K29-4347-04	L07-0039-05 L07-0040-05 L07-0074-05 L07-0127-05 L07-0270-05	NO9-1445-05 NO9-0333-05 N89-3008-45 NO8-0128-35 N89-3008-46	N86-4006-46	T90-0174-05 T90-0175-05 T90-0185-05	KR - V8540	A01-1829-11 A09-0111-08 A22-1542-12 A60-0167-02 A70-0574-05	B07-1999-02 B10-1904-03 B43-0287-04 B46-0092-13 B46-0094-03	B46-0095-03 B46-0121-13 B46-0197-00 B58-0513-04 B60-0715-00	B60-0716-00 B60-0718-00	E03-0115-05 E30-2592-15 E30-2605-05 E30-2650-05	F20-1285-05
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A indicates safety critical components.

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

A indicates safety critical comporants.

E:Europe M:Other Areas

Y:PX(Far East, Hawaii) Y:AAFES(Europe)

Re- marks												
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scription 名/施	10UF 0.010UF 0.010UF 47UF 470UF	0.010F 0.01UF 0.010UF 0.010UF 3300UF	0.10UF 7500UF 47UF 330UF	1000F 1000PF 47UF 0.010UF 47UF	2.20F 0.010UF 470UF 2.20F	0.010UF 47UF	HONES) AL BOARD(F AL BOARD(F AL BOARD(C AL BOARD(C	((LD, VIDEO, M PHONE JACK((250V (125V (250V (250V (125V	(250V (250V		IPENSATION CO INSFORMER INSFORMER
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Description 品 名/集	TEET	OC.	FOAMED F FOAMED F AG (850) AG (235) CASE	CASE	DER BUSHING	BALANC NTROL) NPUT S LE)	SFORMER SFORMER SFORMER	(M3X8) EW (3X12) D TAPTITE T (GND) D TAPTITE	D. TAPTITE	NNA	1	100UF 100UF 47UF 0.010UF 2200PF	0.10UF 0.22UF 0.22UF 0.010UF	0.10UF 0.22UF 2200PF 0.010UF	0.100F 0.220F 0.220F 2.20UF 2.20F
***		ON-WOVEN F RITING SHE OFT TAPE	POLYSTYRENE POLYSTYRENE PROTECTION B PROTECTION B ITEM CARTON	ITEM CARTON	FOOT ANTENNA HOLDER POWER CORD BUSHING WIRE BAND	KNOB(LOUDNESS, KNOB(VOLUME CO KNOB(1-0,+10,I KNOB(8ASS,TREB	POWER TRANS POWER TRANS	SET SCREW TAPPING SCRE BINDING HEAD BINDING POST	BINDING HEAD	LOOP ANTENNA T TYPE ANTENNA	V8040: X09	BLECTRO ELECTRO ELECTRO CERAMIC CERAMIC	MF GERAMIC CERAMIC MF	MF CERAMIC CERAMIC CERAMIC	MF MF ELECTRO ELECTRO
Parts No.	# C	10-0148-0 16-0773-0 11-2119-0	H10-5281-02 H10-5282-02 H25-0225-04 H25-0232-04 H25-0232-04	-0315	J02-1034-05 J19-2815-04 J42-0083-05 J61-0307-05	K29-3632-04 K29-4110-04 K29-4345-02 K29-4347-04	L07-0499-05 L07-0500-05 L07-0501-05	NO9-1445-05 NO9-0333-05 N89-3008-45 NO8-0128-35 N89-3008-46	N86-4006-46	T90-0174-05 T90-0175-05	AUDIO UNIT (KR-	CE04KW2A100M CE04KW2A101M CE04KW1H470M CK45FF1H103Z CK45FB1H22K	CF92FV1H104J CF92FV1H224J CK45FB1H224J CK45FF1H103Z CF92FV1H224J	CF92FV1H104J CF92FV1H224J CK45FB1H224 CK45FF1H103Z CK45FF1H103J	CF92FV1H104J CF92FV1H224J CF92FV1H224J CE04KW0J221M
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PARTS LIST

A indicates safety critical components

Y:PX(Far East, Hawaii) Y:AAFES(Europe)

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NB9-3008-46	#	Parts No. 概 和 本	Description 赛 细 仇 / 熬 奉	Desti-Renation ma
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RD14MB2EB22J RD	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	14KB3D4R7 14NB2E220 14NB2E470 14NB2E470	-PROOF RS 4.7 J 2W 22 J 1/4 47 J 1/4 -PROOF RS 4.7 J 2W	
FL-PROOF RS 560 J 2W R014M82E100J RD	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4NB2E822 4NB2E470 4NB2E822 4DB3A4R7 4NB2E100	0 8-2K J 1/4 0 47 J 1/4 0 8-2K J 1/4 0 1-PROOF RS 4.7 J 1W	
RD14MB2E101J RD 100 J 1/4W RB14KB2E101J FL-PROOF RS 330 J 2W RB14KB2B131J FL-PROOF RS 330 J 2W RB14KB3B3470J FL-PROOF RS 47 J 1W R92-0173-05 EL-PROOF RS 47 J 1W R314DB3470J FL-PROOF RS 47 J 1W R31-1617-05 FRIMMING POTC2.2X)(IDLE CUR.) MAGNETIC RELAYCA, B SP. GNVOFF) MAGNETIC RELAYCA, B SP. GNVOFF, MAGNETIC RELAXCA, GNVOFF, M	****	14KB3D561 14NB2E100 14NB2E2R2 14NB2E100	L-PRGGF RS 560 J 2W 10 J 1/4 2.2 J 1/4 10 J 1/4 100 J 1/4	
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## MACHETIC RELAY(A, B SP. 0N/0FF) ## MACHETIC RELAY(A, B SP. 0N/0FF) ## MACHETIC RELAY(A, B SP. 0N/0FF) ## MACHETIC RELAY(C, R SP. 0N/0FF) ## MACHETIC RELA	88	14DB3A470 2-1617-05	L-PROOF RS 47 J 1W RIMMING POT(2,2K)(IDLE CUR.	
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× New Parts Parts without Parts No. are not supplied.

A indicates safety critical components.

E:Europe M:Other Areas

Y:PX(Far East, Hawaii) Y:AAFES(Europe)

A indicates safety critical components

K:USA T:England

PARTS LIST

No. 9

× New Parts
Parts without Parts No. are not supplied.
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A indicates safety critical components.

P:Canada E:Europe M:Other Areas

K:USA T:England X:Australia

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

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PARTS LIST

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Description	郎 品 允/慈 奋	IC(OP AMP X2) IC(OP AMP X2) ITRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR
Parts No.	10 章 40 章	NJM4565D-D RC4565D-D 2SC1953(R, 0) 2SC1845(F, E) 2SC1740S(Q, R)	2SC2458(Y, GR) 2SC2785(F, E) 2SC3311A(Q, R) 2SC1740S(Q, R) 2SC2458(Y, GR)	2SC2785(F,E) 2SC33114(Q,R) 2SA1048(Y,GR) 2SA1175(F,E) 2SA13094(Q,R)	2SA933S(Q,R) 2SC1740S(Q,R) 2SC2458(Y,GR) 2SC2785(F,E) 2SC33114(Q,R)	2SC2003(L,K) 2SC1740S(Q,R) 2SC2458(Y,GR) 2SC2785(F,E) 2SC3311A(Q,R)	2SC1740S(Q,R) 2SC2458(Y,GR) 2SC278S(F,E) 2SC3311A(Q,R) 2SA1048(Y,GR)	2SA1175(F,E) 2SA1309A(4 ,R) 2SA933S(4 ,R) 2SC2678(B) 2SA1048(Y,GR)	25A1175(F, E) 25A1309A(Q,R) 25A9335(Q,R) 25C2878(B) 25C1740S(Q,R)	2SC2458(Y,GR) 2SC2785(F,E) 2SC3311A(Q,R) 2SA992(F,E) 2SC2631(R,S)	2SA1123(R,S) 2SA1048(Y,GR) 2SA1175(F,E) 2SA1309A(Q,R) 2SA933S(Q,R)	2SC1845(F,E) 2SA992(F,E) 2SC1740S(Q,R)
	Parts											
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P:Canada E:Europe M:Other Areas

K:USA T:England X:Australia

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAi:ES(Europe)

> L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

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Description	をなった。	RD 100 RD 47 FL-PRØØF RS 220 RD 100 RD 100		RD 220 RD 10 RD 100 RD 100 TRIMMING POT(22K)(FM,A	TRIMMING POT(2.2K)(SEP- POTENTIOMETER(100K)(VO POTENTIOMETER(BALANCE)	SLIDE SWITCH(DE-EM, CH	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE	ZENER DIØDE ZENER DIØDE ZENER DIØDE DIØDE DIØDE	ZENER DIØDE ZENER DIØDE ZENER DIØDE ZENER DIØDE	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	DIODE DIODE DIODE DIODE IC(FM/AM MPX SYSTEM)	IC(PLL SYNTHESIZER)
Parts No.	中中	RD14NB2E101J RD14NB2E470J RS14KB3D221J RD14NB2E101J RD14NB2E101J	RD14NB2E121J RD14NB2E221J RD14NB2E121J RD14NB2E221J RD14NB2E121J	RD14NB2E221J RD14NB2E100J RD14NB2E101J RD14NB2E101J R12-3686-05	R12-1617-05 R29-5065-05 R05-5041-05 R10-5045-05	531-2132-05	HSS104 1SS133 HZS5.1N(B2) RD5.1ES(B2) HZS13N(B2)	RD13ES(B2) HZS4.7N(B) RD4.7ES(B) HSS104A 1SS131	HZS11N(B2) RD11ES(B2) HZS13N(B2) RD13ES(B2) HSS104A	15S131 HZS13N(B2) RD13ES(B2) HZS11N(B2) RD11ES(B2)	HSS104A 1SS131 HSS104 1SS133 LA1851N	LC7218 NJM4565L
New Perts	*				*							
d'e	台灣				222	2D						
Ref. No.	参照春印	R6 R11 R31 R38 R69	R181,182 R187-190 R209 R213,214	R225,226 R339 R342,343 R346,347 VR1,2	VR5 VR5 VR5	S1	01 .2 01 .2 03 04	04 010 010 011 ,12		D17 .18 D19 .20 D19 .20 D21 .22 D21 .22	D23 -26 D23 -26 D27 -33 D27 -33	102

A indicates safety critical components.

E:Europe M:Other Areas

K:USA T:England X:Australia

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

PARTS LIST

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Description晶 名/規	0.18UF 330PF 4.7UF 100PF 4.7UF	4.7UF 180PF 4.7UF 0.010UF 4.7UF	100UF 10UF 1000PF 47UF 100UF	100PF 3300PF 10UF 0.10UF	10F 0.100F 3300F 0.100F 3300F	0.10UF 100UF 0.10UF 330UF 4.7UF	47UF 0.10UF	INDUCTOR(1UH) .194MHz) 1.2896MHz)	100KX6 100KX8 100KX6 10KX4 10KX4	100 100 100 220 R(10KB)(TR	POWER)	
報	MF CERAMIC ELECTRO CERAMIC ELECTRO	ELECTRO CERAMIC ELECTRO MYLAR ELECTRO	ELECTRO ELECTRO CERAMIC ELECTRO	CERAMIC CERAMIC ELECTRO MF CERAMIC	ELECTRO MF ELECTRO MF ELECTRO	MF ELECTRO MF ELECTRO ELECTRO	ELECTRØ MF	LC FILTER SMALL FIXED RESONATOR(4.	MULTI-COMP MULTI-COMP MULTI-COMP MULTI-COMP	FL-PROOF RS RD RD RD POTENTIOMETE	PUSH SWITCH(E PUSH SWITCH PUSH SWITCH PUSH SWITCH	DIQUE DIQUE SENED PIEDE
Parts No.	CF92FV1H184J CASFSL1H331J C90-3224-05 CC45FSL1H101J C90-3224-05	C90-3224-05 CC45FSL1H181J C90-3224-05 C992FM1H103J C90-3224-05	C90-3230-05 C90-3225-05 CKASFB1H102K C90-3228-05 C90-3230-05	CC45FSL1H101J CK45FB1H332K C90-3225-05 CF92FV1H104J CK45FB1H102K	C90-3253-05 CF92FV1H104J C90-3216-05 CF92FV1H104J C90-3216-05	CF92FV1H104J C90-3222-05 CF92FV1H104J C90-3216-05 C90-3224-05	C90-3212-05 CF92FV1H104J	L79-0799-05 L40-1091-17 L78-0267-05 L78-0291-05	R90-0500-05 R90-0492-05 R90-0500-05 R90-0809-05 R90-0855-05	RS14KB3D101J RD14NB2E101J RD14NB2E101J RD14NB2E221J RO6-3075-OS	S40-1064-05 S40-1064-05 S40-1064-05 S40-1064-05	HSS104 15S133
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and in	品 名/慈			D ASSY D ASSY	0 - 10)		0.047F 1000F 0.01UF 33UF 0.01UF	4.70F 0.0100F 1000F 0.330F 1000F	0.01UF 4.7UF 100PF 2.2UF 4.7UF	330PF 2.2UF 3300PF 100PF 0.016UF	0.020UF 820PF 4.7UF 390PF 100PF	4.70F 10F 0.047UF 220PF 47PF	10F 10UF 4.7UF 330PF 2.2UF	100PF 330PF 0.020UF 0.024UF 1000PF	4.7UF
:	120	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR	FM FRONT-END	0	097 097	BACKUP ELECTRO CERAMIC ELECTRO	ELECTRO CERAMIC ELECTRO ELECTRO ELECTRO	CERAMIC ELECTRO CERAMIC ELECTRO	CERAMIC ELECTRO MYLAR CERAMIC MYLAR	MYLAR CERAMIC ELECTRO CERAMIC CERAMIC	BLECTRO BLECTRO MF CBRAMIC CBRAMIC	ELECTRO ELECTRO ELECTRO CERAMIC ELECTRO	CERAMIC CERAMIC MYLAR MF MYLAR	ELECTRO
Parts No.	电 电电	2SC3311A(Q,R) 2SA992(F,E) 2SC2631(R,S) 2SA1123(R,S) 2SA992(F,E)	2SC1845(F,E) 2SA992(F,E)	W02-1041-15 W02-1042-15	_	B30-1291-05 B30-1291-05	C90-1827-05 C90-3222-05 C91-0769-05 C90-3219-05 C91-0769-05	C90-3256-05 CK45FF1H103Z C90-3214-05 C90-3250-05 C90-3222-05	C91-0769-05 C90-3224-05 CC45FSL1H1013 C90-3254-05 C90-3224-05	CC45FSL1H331J C90-3254-05 CQ92FM1H332J CC45FSL1H101J CQ92FM1H163J	CQ92FM1H203J CK45FB1H01K C90-3224-05 CK45FB1H391K CC45FSL1H101J	C90-3224-05 C90-3253-05 CF92FV1H473J CC45FSL1H221J CC45FSL1H70J	C90-3253-05 C90-3225-05 C90-3224-05 CC45FSL1H331J	CC45FSL1H101J CC45FSL1H331J CQ92FM1H203J CF92FV1H243J	C90-3224-05
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as fournis.	Description	超 岛 名/然 布	DIODE DIODE ZENER DIODE ZENER DIODE DIODE	01006 01006 01006 01006 01006	0100E 0100E 0100E 0100E	DIODE ZENER DIODE ZENER DIODE FLUOMESCENT INDICATOR TUBE IC(MICROPROCESSOR)	ICCOBEODER) ICCOBCODER) ICCOBCODER) ICCOSYSTEM RESET) ICCOF AMP X2)	IC(OP AMP X2) IC(OP AMP X2) IC(AMALGG SWITCH) IC(AMALGG SWITCH) IC(2CH ELECTRONIC VOLUME) IC(DOLBY PROLOGIC)	IC(S-RAM) (CV@LTAGE RECULATOR/ +5V) TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ELECTRIC CIRCUIT MODULE ELECTRIC CIRCUIT MODULE ELECTRIC CIRCUIT MODULE
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SPECIFICATIONS

(For U.S.A. and Canada)

Audio section
Rated power output at the STEREO operation

120 watts per channel minimum RMS, both channels driven at 8 %, from 20 Hz to 20,000 Hz with no more than 0.03% total harmonic distortions. (FTC)

0.0070 (0.00.110.110.110.110.110.110.110.110.11
Power output at the Surround operation
Front (1 kHz, 0.9% T.H.D. at 8 Ω) 75 W+75 W
Center (1 kHz, 0.9% T.H.D. at 8 Ω)
Rear (1 kHz, 0.9% T.H.D. at 8 Ω) 20 W+20 W
Total harmonic distortion (1 kHz, 8 Ω) 0.003% at 65 W
Frequency response CD
Signal to noise ratio (IHF-A)
PHONO (MM)
Input sensitivity / impedance PHONO (MM)
CD, TAPE, VIDEO
Tone controls
BASS ±10 dB (at 100 Hz)
TREBLE ±10 dB (at 10 kHz)
Loudness control at -30 dB VOLUME level +8 dB (100 Hz), +2dB (10 kHz) max.
Video section
VIDEO inputs / outputs
VIDEO inputs / outputs (Composite) 1 Vp-p / 75 Ω
S-VIDEO inputs / outputs
(Luminance signal) 1 Vp-p / 75 Ω
(Chrominance signal) 0.286 Vp-p / 75 Ω
FM Tuner section
Tuning frequency range 87.5 MHz~108 MHz
Antenna impedance
Sensitivity (IHF) 10.8 dBf (0.95 μV at 75 Ω)
50 dB quieting consitivity
MONO
STEREO
Total harmonic distortion at 1,000 Hz MONO
MONO
Signal to noise ratio at 65 dBf (iHF)
MONO 80 dB
STEREO
Selectivity (IHF ±400 kHz) 53 dB
Stereo separation (IHF at 1 kHz)
Frequency response 30 Hz~15 kHz, +0.5 dB,-2.0 dB
AM Tuner section
Tuning frequency range
Usable sensitivity
Total harmonic distortion
Signal to noise ratio 50 dB Selectivity 25 dB
SHECTIVITY25 GB
General
Power consumption3 A
Dimensions440 (W) × 163 (H) × 415 (D) mm (17-5 / 16") × (6-7 / 16") × (16-5 / 16")
Weight (net)
AC outletsswitched x3, total 200 W, 1.6 A max.

AC outletsswitched x3, total 200 W, 1.6 A max.

(For other countries)

Audio section
Rated power output at the STEREO operation
/ILLE 'SÉ' from 20 Hz to 20 kHz.
0.06% T.H.D., at 8 Ω
Power output at the Surround operation
Front (1 kHz, 0.9% T.H.D. at 8 Ω) 75 W + 75 W
Center (1 kHz, 0.9% T.H.D. at 8 Ω)
Rear (1 kHz, 0.9% T.H.D. at 8 Ω) 20 W + 20 W
Total harmonic distortion (1 kHz, 8 Ω) 0.03% at 65 W
Frequency response
CD 10 Hz ~ 50 kHz, + 0 dB, -3 dB
O' I An maion metio //UE-A)
Signal to noise ratio (IHF-A) PHONO (MM)
CD, TAPE, VIDEO 100 dB for 200 mV input
CD, TAPE, VIDEO 100 dB for 200 file input
Input sensitivity / impedance
PHONO (MM) 2.5 mV / 47 kΩ
CD, TAPE, VIDEO 200 mV / 47kΩ
Tone controls
BASS ±10 dB (at 100 Hz)
TREBLE ±10 dB (at 10 kHz)
Loudness control at 30 dB VOLUME level
8 dB (100 Hz), + 2 dB (10 kHz) max.
VIDEO inputs / outputs
(Composite) 1 Vp-p / 75 Ω
S-VIDEO inputs / outputs
(Luminance signal) 1 Vp-p / 75 Ω
(Chrominance signal) 0.286 Vp-p / 75 Ω
(ora difficulties or great in the control of the co
FM Tuner section
Tuning fraguency range 87.5 MHz~108 MHz
Antenna impedance 300 Ω balanced & 75 Ω unbalanced
Sensitivity (IHF) 10.8 dBf (0.95 μV at 75 Ω)
50 dB quieting sensitivity
MONO 16.2 dBf (3.5 μV at 75 Ω)
STEREO
Total harmonic distortion at 1 kHz
MONO
MUNU
STEREO
Signal to noise ratio at 65 dBf (IHF)
MONO 80 dB
STEREO74 dB
Selectivity (IHF ± 400 kHz) 53 dB
Stereo separation (IHF at 1 kHz) 50 dB
Frequency response 30 Hz~15 kHz, + 0.5 dB,- 2.0 dB
AM Tuner section
Tuning frequency range
9 kHz step 531 kHz ~1,602 kHz
10 kHz step 530 kHz ~1,610 kHz
Usable sensitivity 10 μV / (400 μV / m)
Total harmonic distortion 0.3%
Signal to noise ratio 50 dB
Selectivity
General
Power consumption 300 W (IEC)
dimensions
Weight (net) 13.9 kg
AC autlete authorized was a watched
AC outlets switched×200 W max